

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

Product Name: Tablet
Brand Name: TomTom
Model No.: 4FI76
Model Difference: N/A
FCC ID: S4L4FI76
IC: 5767A-4FI76
Report No.: E2/2016/80015
Issue Date: Aug. 31, 2016
FCC Rule Part: §15.407
IC Rule Part: RSS-247 issue 1 May 2015

Prepared for: TomTom International B.V.
De Ruijterkade 154, 1011 AC Amsterdam,
The Netherlands

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District,
Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: TomTom International B.V.
De Ruijterterkade 154, 1011 AC Amsterdam, The Netherlands

Product Name: Tablet

Brand Name: TomTom

Model No.: 4FI76

Model Difference: N/A

FCC ID: S4L4FI76

IC : 5767A-4FI76

File Number: E2/2016/80015

Date of test: Aug. 01, 2016 ~ Aug. 26, 2016

Date of EUT Received: Aug. 01, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Jerry Lu

Date:

Aug. 31, 2016

Jerry Lu / Sr.Engineer

Prepared By:

Allen Tsai

Date:

Aug. 31, 2016

Allen Tsai / Engineer

Approved By:

Jim Chang

Date:

Aug. 31, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|--------------|
| E2/2016/80015 | Rev.00 | Initial creation of document | Aug. 31,2016 |
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1. GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|-------------------|---|-----------------------------------|
| Product Name: | Tablet | |
| Brand Name: | TomTom | |
| Model No.: | 4FI76 | |
| Model Difference: | N/A | |
| Hardware Version: | PR1.1 | |
| Software Version: | 14.451 | |
| Car charger | Model No.: 4UFI0 | Brand: TomTom |
| USB cable | Model No.: 4UUC.001.24 | Brand: TomTom |
| MIC cable | Model No.: P7051-13 | Brand: TomTom |
| MIC | Model No.: NEIM1100106 | Brand: TomTom |
| Car cable | Model No.: NA | Brand: TomTom |
| Video cradle | Model No.: 4FI75 | Brand: TomTom |
| Daimler cradle | Model No.: 4FI77 | Brand: TomTom |
| Basic cradle | Model No.: 4FI74 | Brand: TomTom |
| Power Supply: | 3.8VDC from Rechargeable Li-ion battery, 5VDC from USB port | |
| | Battery: | Model No.: UZ6 Brand: TomTom |

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FCC WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) | Modulation Technology |
|-------|-----------------|----------|--------------------|-----------------------|
| 11a | 5150~5250 | 4 | 11.99 dBm | OFDM |
| | 5250~5350 | 4 | 11.93 dBm | |
| | 5470~5725 | 12 | 11.84 dBm | |
| | 5725~5850 | 5 | 11.93 dBm | |
| 11n | HT20 5150~5250 | 4 | 11.97 dBm | OFDM |
| | HT20 5250~5350 | 4 | 11.88 dBm | |
| | HT20 5470~5725 | 12 | 11.95 dBm | |
| | HT20 5725~5850 | 5 | 11.80 dBm | |
| 11n | HT40 5150~5250 | 2 | 11.89 dBm | OFDM |
| | HT40 5250~5350 | 2 | 11.83 dBm | |
| | HT40 5470~5725 | 6 | 11.98 dBm | |
| | HT40 5725~5850 | 2 | 11.42 dBm | |

IC WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) / (EIRP) | Modulation Technology |
|-------|-----------------|----------|-----------------------------|-----------------------|
| 11a | 5150~5250 | 4 | 14.87dBm (EIRP) | OFDM |
| | 5250~5350 | 4 | 11.93 dBm | |
| | 5500~5580 | 5 | 11.84 dBm | |
| | 5700~5700 | 1 | 11.67 dBm | |
| | 5745~5825 | 5 | 11.93 dBm | |
| 11n | HT20 5150~5250 | 4 | 14.85dBm (EIRP) | OFDM |
| | HT20 5250~5350 | 4 | 11.88 dBm | |
| | HT20 5500~5580 | 5 | 11.95 dBm | |
| | HT20 5660~5720 | 4 | 11.71 dBm | |
| | HT20 5745~5825 | 5 | 11.80 dBm | |
| 11n | HT40 5150~5250 | 2 | 14.77dBm (EIRP) | OFDM |
| | HT40 5250~5350 | 2 | 11.83 dBm | |
| | HT40 5510~5550 | 2 | 11.98 dBm | |
| | HT40 5670~5670 | 1 | 11.31 dBm | |
| | HT40 5755~5795 | 2 | 11.42 dBm | |

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| | |
|---------------------|---|
| Antenna Designation | Chip Antenna, Model No.: ACM3-5036, Supplier: INPAQ 5GHz Gain: 2.88dBi (5150MHz-5250MHz) 5GHz Gain: 3.80dBi (5250MHz-5350MHz) 5GHz Gain: 3.64dBi (5470MHz-5725MHz) 5GHz Gain: 3.64dBi (5725MHz-5850MHz) |
| Modulation type | 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transition Rate: | 802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps |

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting below features.

| Product Feature | |
|-------------------------|-----------------|
| GSM Operating Band(s) | GSM 850/1900MHz |
| WCDMA Operating Band(s) | FDD Band II / V |
| Bluetooth Version | V4.0 dual mode |
| Wi-Fi- Specification | 802.11a/b/g/n |
| NFC Specification | NFC |

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

RSS-247 issue 1 May 2015

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.8dB, and 10dB attenuator.

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 11.9(\text{dB})$$

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted (Antenna Port) Configuration Emission



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | WLAN Test Software | DRTU | N/A | N/A | N/A | N/A |
| 2. | DC Power Supply | Agilent | E3634A | MY53180030 | N/A | Un-shield |
| 3. | Notebook | Lenovo | L412 | LR-957X7 | shield | Un-shield |

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3. SUMMARY OF TEST RESULT

| FCC Rules | IC Rules | Description Of Test | Result |
|--------------------------|---------------------------------------|--|-----------|
| §15.207 | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.403(i) §15.407(e) | RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6 | 26 dB & 6dB & 99% Emission Bandwidth | Compliant |
| §15.407(a) | RSS-247 §6.2.1~ 4 (1) | Maximum Conducted Output Power | Compliant |
| §15.407(a) | RSS-247 §6.2.1~ 4 (1) | Power Spectral Density | Compliant |
| §15.407(b) | RSS-247 §6.2.1~ 4 (2) | Undesirable Radiated Emissions | Compliant |
| §15.407(c) | RSS-247 §6.4 | Transmission in case of Absence of Information | Compliant |
| §15.407(g) | RSS-Gen §6.11 | Frequency Stability | Compliant |
| §15.203 §15.407(a) | RSS- Gen §6.7 RSS- Gen §8.3 | Antenna Requirement | Compliant |

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

2 channels are provided for 802.11n_HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 46 | 5230 MHz |

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 MHz | 64 | 5320 MHz |

2 channels are provided for 802.11n_HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz |

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for FCC 802.11a, 802.11n_HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | 144 | 5720 MHz |

5 channels are provided for 802.11n_HT40, 802

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | 142 | 5710 MHz |

Note: Channels from 5600MHz ~ 5650MHz are disabled when this product is marketed withing Canada.

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149 | 5745 MHz | 161 | 5805 MHz |
| 153 | 5765 MHz | 165 | 5825 MHz |
| 157 | 5785 MHz | | |

2 channels are provided for 802.11n_HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 151 | 5755 MHz | 159 | 5795 MHz |

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11ac yields the highest reading that generates the highest emission. Therefore, 802.11ac as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11a | 5500~5720 | 100 to 140 | 100,116,140 | OFDM | 6 |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5270~5310 | 54 to 62 | 54,62 | OFDM | MCS0 |

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| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|--------------|----------------------|-------------------|----------------|------------|------------------|
| 802.11a | 5500~5720 | 100 to 144 | 100,116,140 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5510~5710 | 102 to 142 | 102,110,134 | OFDM | MCS0 |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS0 |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | | |
|----------------|----------------------|-------------------|-----------------|------------|------------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5270~5310 | 54 to 62 | 54,62 | OFDM | MCS0 |
| 802.11a | 5500~5720 | 100 to 144 | 100,116,140,144 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5510~5710 | 102 to 142 | 102,110,134,142 | OFDM | MCS0 |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS0 |

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| 26dB & 6dB Emission Bandwidth | +/- 123.36 Hz |
| The Maximum Output Power Measurement | +/- 0.96 dB |
| Peak Power Spectral Density Measurement | +/- 1.67 dB |
| Frequency Stability | +/- 123.36 Hz |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC=+/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|--|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |
| Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. | | |

6.2. Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------------|-----------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 7 | 100950 | 12/12/2015 | 12/11/2016 |
| Coaxial Cables | N/A | N30N30-1042-150 cm | N/A | 02/07/2016 | 02/06/2017 |
| LISN | Schwarzbec k | NSLK 8127 | 8127-648 | 03/11/2016 | 03/10/2017 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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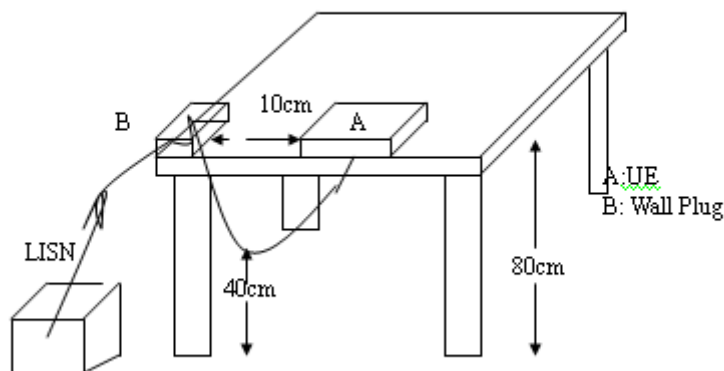
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6.4. Test SET-UP



6.5. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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| | | | | | |
|-----------------|----------------|-----------|------|----------|------|
| Operation Mode: | Operation mode | | | Test By: | Vito |
| Temperature: | 20 | Humidity: | 58 % | | |

Site : Conduction Room

Phase: **L1**

Temperature: 22 °C

Limit: FCC Class B Conduction(QP)

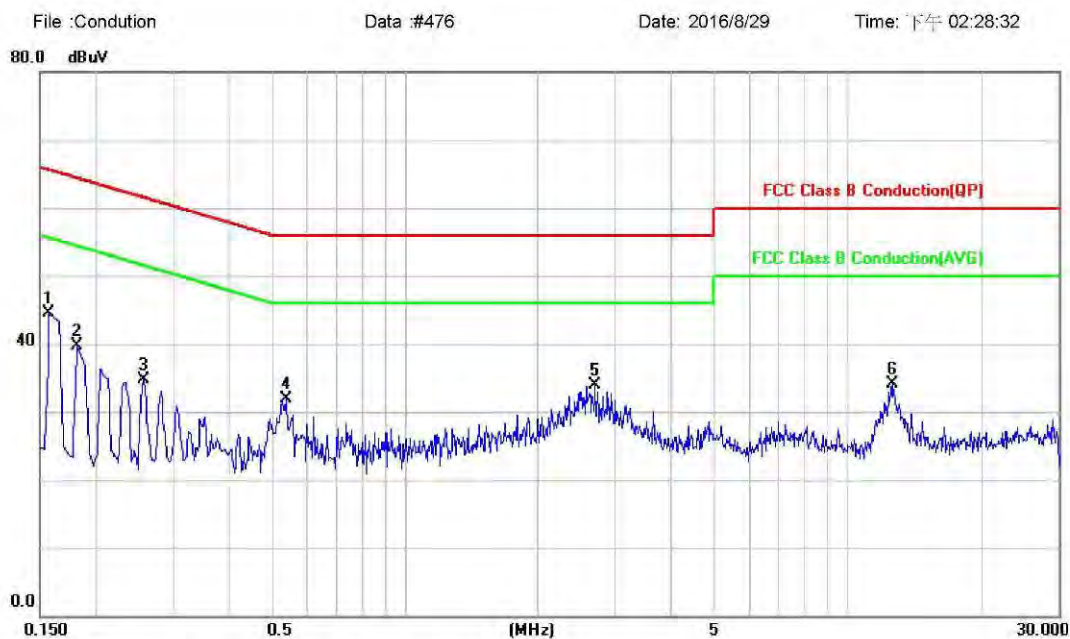
Power: AC 120V/60Hz

Humidity: 63 %

Mode: UZ6A

Note:

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1580 | 24.69 | 19.72 | 44.41 | 65.57 | -21.16 | peak | |
| 2 | | 0.1820 | 20.03 | 19.71 | 39.74 | 64.39 | -24.65 | peak | |
| 3 | | 0.2580 | 14.97 | 19.75 | 34.72 | 61.50 | -26.78 | peak | |
| 4 | | 0.5420 | 11.95 | 19.90 | 31.85 | 56.00 | -24.15 | peak | |
| 5 | | 2.6940 | 14.00 | 19.94 | 33.94 | 56.00 | -22.06 | peak | |
| 6 | | 12.6020 | 13.95 | 20.19 | 34.14 | 60.00 | -25.86 | peak | |

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Site : Conduction Room

Phase: **N**

Temperature: 22 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 63 %

Mode: UZ6A

Note:

Conducted Emission

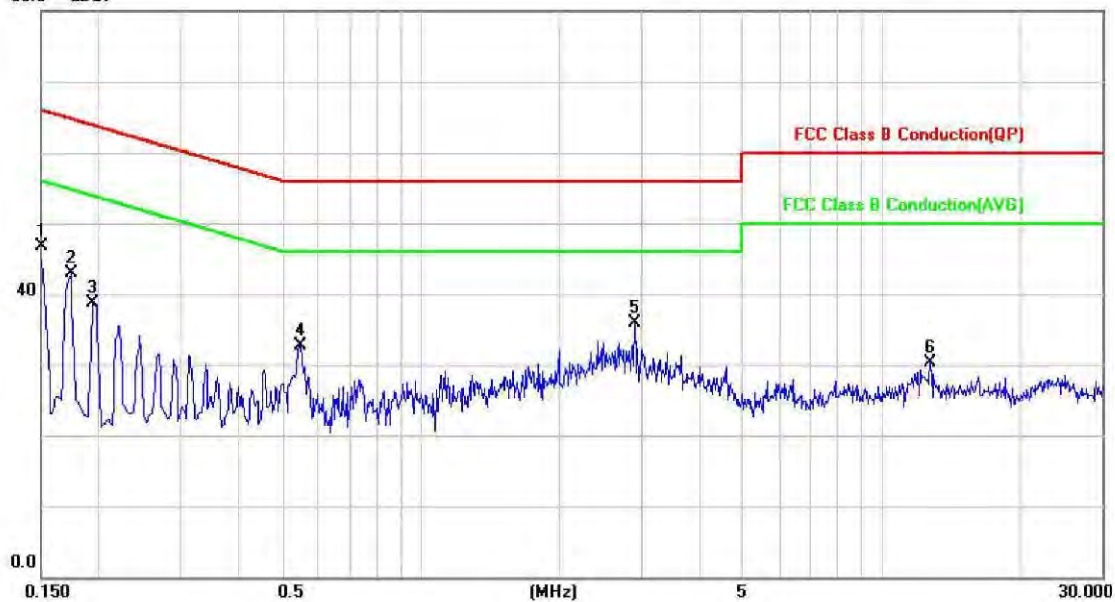
File :Conduction

Data :#477

Date: 2016/8/29

Time: 下午 02:29:53

80.0 dBuV



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 * | | 0.1500 | 26.92 | 19.73 | 46.65 | 66.00 | -19.35 | peak | |
| 2 | | 0.1740 | 23.08 | 19.73 | 42.81 | 64.77 | -21.96 | peak | |
| 3 | | 0.1940 | 18.96 | 19.72 | 38.68 | 63.86 | -25.18 | peak | |
| 4 | | 0.5460 | 12.75 | 19.91 | 32.66 | 56.00 | -23.34 | peak | |
| 5 | | 2.9100 | 16.04 | 19.95 | 35.99 | 56.00 | -20.01 | peak | |
| 6 | | 12.7460 | 10.02 | 20.24 | 30.26 | 60.00 | -29.74 | peak | |

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7. DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

| Mode | Duty Cycle (%) | Duty Factor (dB) =10*log (1/Duty Cycle) |
|------------|----------------|--|
| 802.11a | 87.24 | 0.59 |
| 802.11n_20 | 86.57 | 0.63 |
| 802.11n_40 | 100.00 | 0.00 |

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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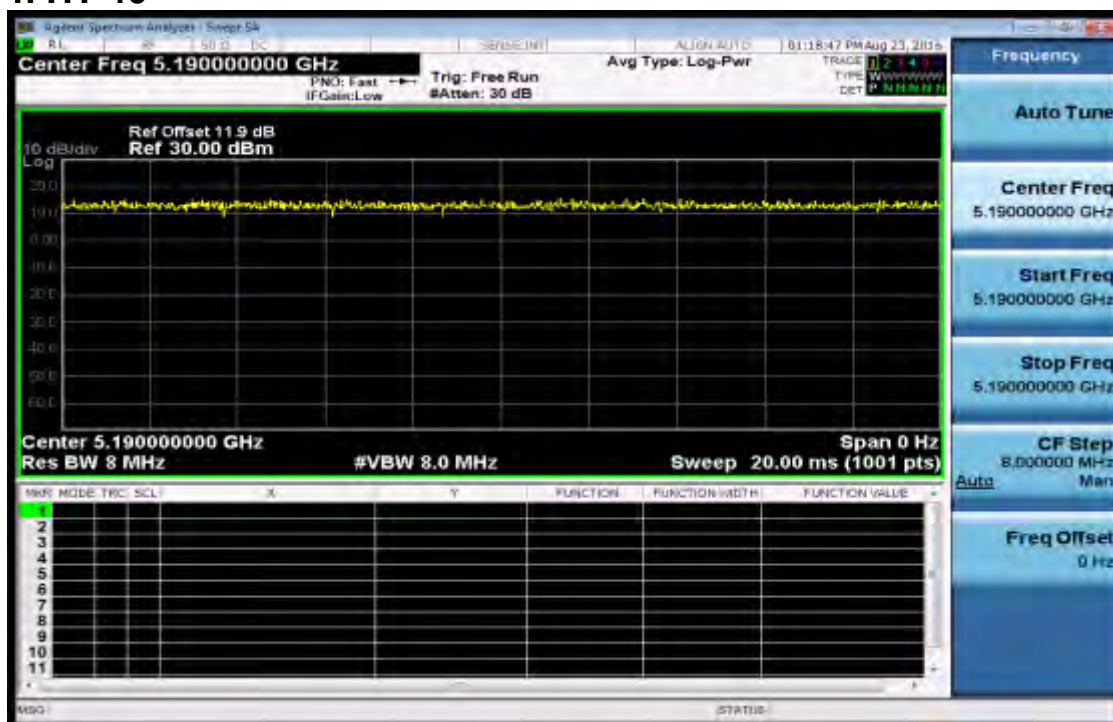
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802.11 n HT 40



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

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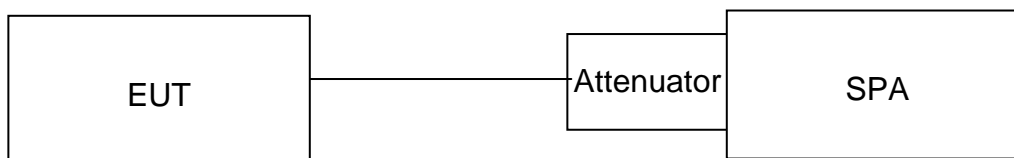
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8.3 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a

802.11n_HT20

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) | 802.11n_HT40 | | |
|-----------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|---------------|-----------------|
| | | | | | | Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
| 5180 | 21.56 | 13.336 | 5180 | 21.82 | 13.388 | | | |
| 5220 | 21.80 | 13.384 | 5220 | 22.03 | 13.430 | | | |
| 5240 | 21.71 | 13.367 | 5240 | 21.89 | 13.403 | 5190 | 43.30 | 16.365 |
| 5260 | 21.73 | 13.371 | 5260 | 22.17 | 13.457 | 5230 | 42.42 | 16.275 |
| 5300 | 21.69 | 13.362 | 5300 | 22.49 | 13.520 | 5270 | 43.57 | 16.392 |
| 5320 | 21.69 | 13.362 | 5320 | 21.88 | 13.401 | 5310 | 42.86 | 16.321 |
| 5500 | 21.92 | 13.408 | 5500 | 22.39 | 13.500 | 5510 | 43.18 | 16.353 |
| 5580 | 21.56 | 13.337 | 5580 | 22.27 | 13.477 | 5550 | 44.89 | 16.521 |
| 5700 | 22.28 | 13.479 | 5700 | 22.58 | 13.537 | 5670 | 43.34 | 16.369 |

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802.11a

802.11n_HT20

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) | 802.11n_HT40 | Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| 5745 | 16.37 | 12.140 | 5745 | 17.62 | 12.461 | | 5755 | 35.17 | 15.462 |
| 5785 | 16.36 | 12.138 | 5785 | 17.60 | 12.456 | | 5795 | 35.07 | 15.450 |
| 5825 | 16.37 | 12.140 | 5825 | 17.61 | 12.458 | | | | |

99% Bandwidth

802.11a

802.11n_HT20

| Frequency (MHz) | 99% BW (MHz) | 10 Log(B) (dB) | Frequency (MHz) | 99% BW (MHz) | 10 Log(B) (dB) | 802.11n_HT40 | Frequency (MHz) | 99% BW (MHz) | 10 Log(B) (dB) |
|-----------------|---------------|----------------|-----------------|---------------|----------------|--------------|-----------------|---------------|----------------|
| 5180 | 16.368 | 12.140 | 5180 | 17.522 | 12.436 | | 5190 | 35.109 | 15.454 |
| 5220 | 16.327 | 12.129 | 5220 | 17.529 | 12.438 | | 5230 | 36.013 | 15.565 |
| 5240 | 16.367 | 12.140 | 5240 | 17.701 | 12.480 | | 5270 | 36.010 | 15.564 |
| 5260 | 16.332 | 12.130 | 5260 | 17.152 | 12.343 | | 5310 | 35.997 | 15.563 |
| 5300 | 16.605 | 12.202 | 5300 | 17.373 | 12.399 | | 5510 | 36.175 | 15.584 |
| 5320 | 16.197 | 12.094 | 5320 | 17.898 | 12.528 | | 5550 | 36.029 | 15.567 |
| 5500 | 16.494 | 12.173 | 5500 | 17.430 | 12.413 | | 5670 | 36.118 | 15.577 |
| 5580 | 16.330 | 12.130 | 5580 | 17.568 | 12.447 | | | | |
| 5700 | 16.166 | 12.086 | 5700 | 17.302 | 12.381 | | | | |

802.11a

802.11n_HT20

| Frequency (MHz) | 6dB BW (MHz) | 10 Log(B) (dB) | Frequency (MHz) | 6dB BW (MHz) | 10 Log(B) (dB) | 802.11n_HT40 | Frequency (MHz) | 6dB BW (MHz) | 10 Log(B) (dB) |
|-----------------|---------------|----------------|-----------------|---------------|----------------|--------------|-----------------|---------------|----------------|
| 5745 | 16.417 | 12.153 | 5745 | 17.530 | 12.438 | | 5755 | 35.724 | 15.530 |
| 5785 | 16.382 | 12.144 | 5785 | 17.551 | 12.443 | | 5795 | 35.876 | 15.548 |
| 5825 | 16.355 | 12.137 | 5825 | 17.702 | 12.480 | | | | |

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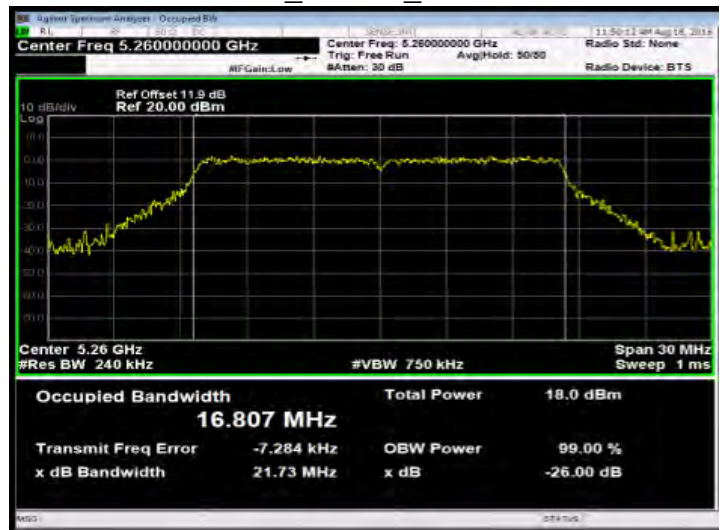
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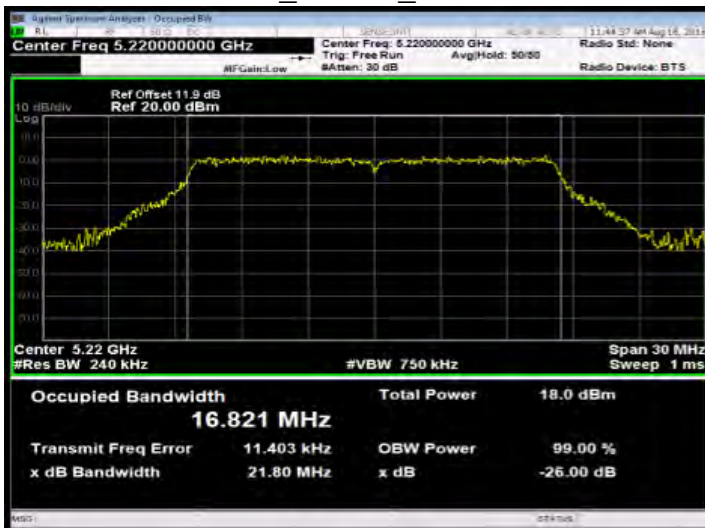
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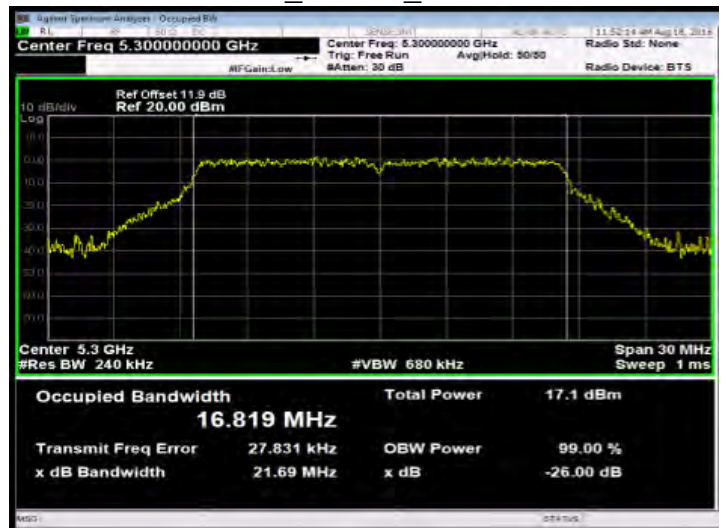
802.11a_20MHz_5260MHz



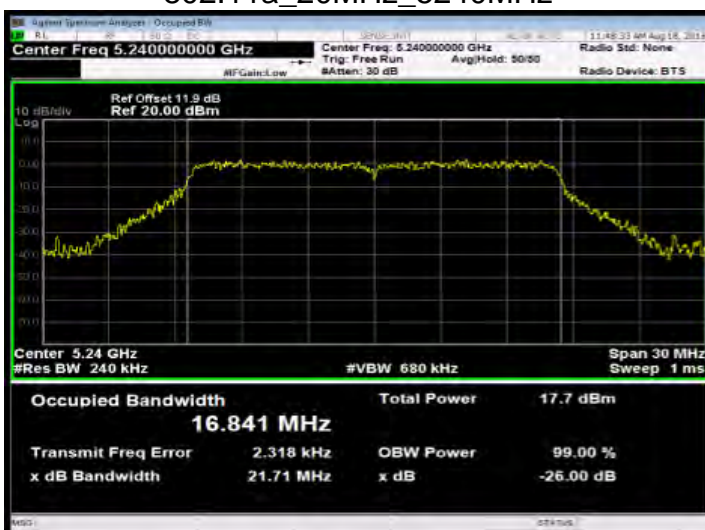
802.11a_20MHz_5220MHz



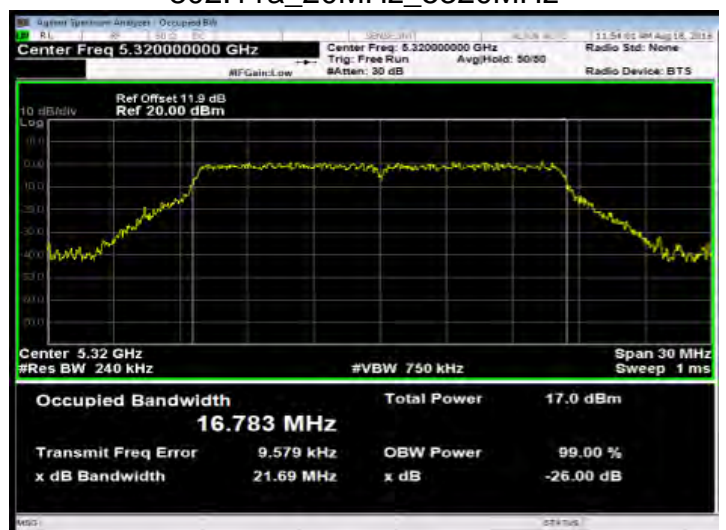
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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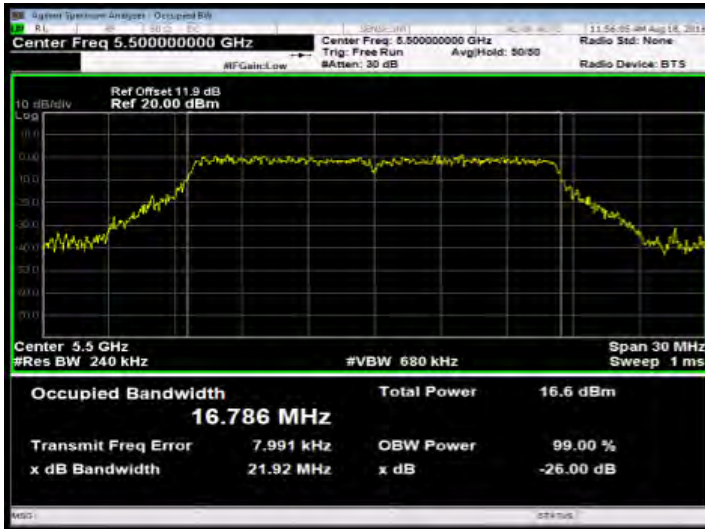
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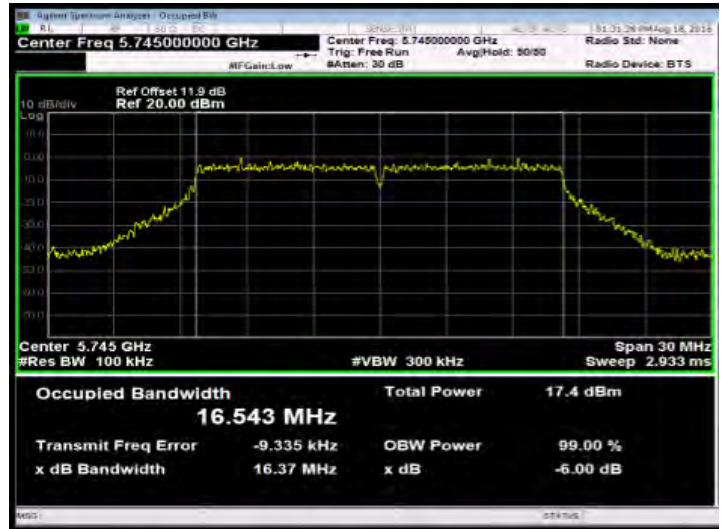
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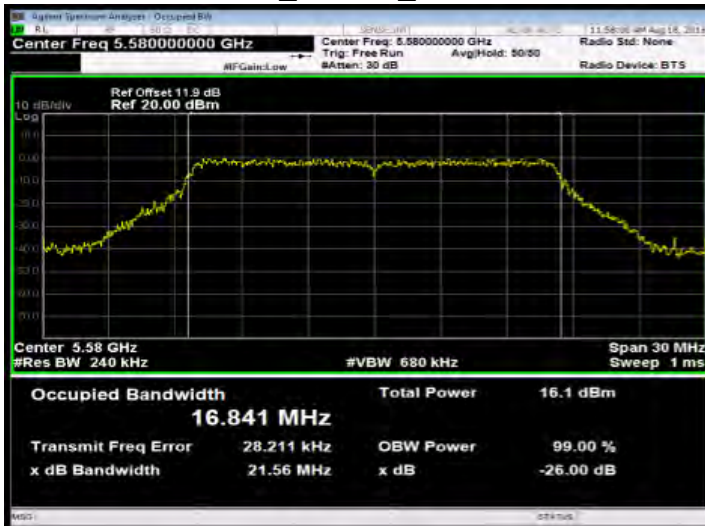
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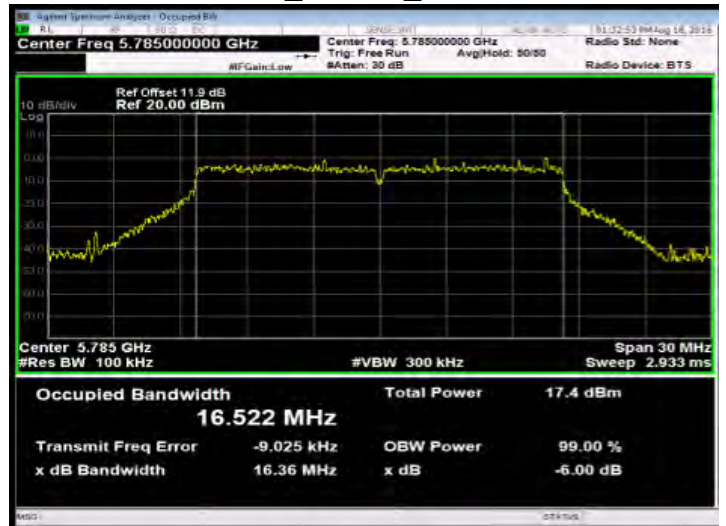
802.11a_20MHz_5745MHz



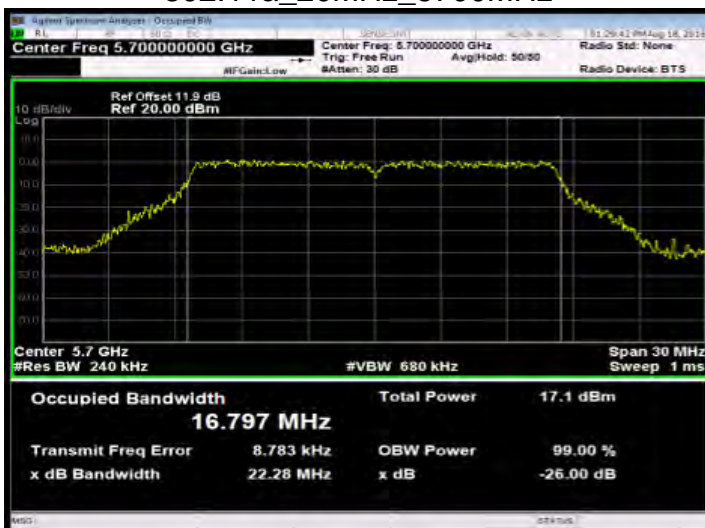
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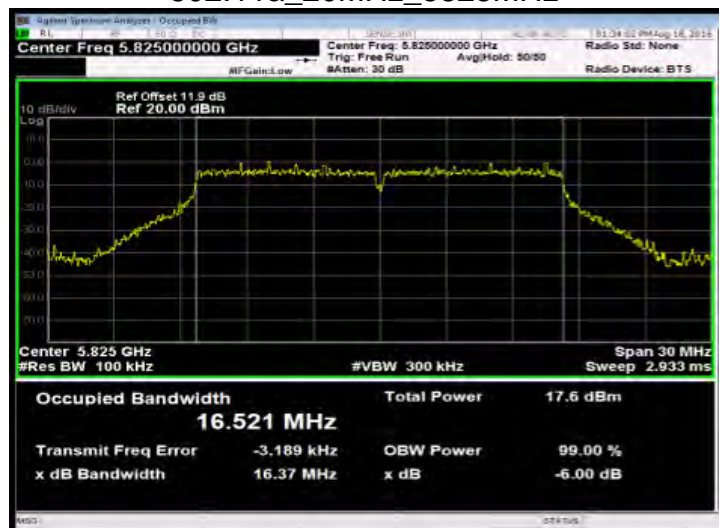
802.11a_20MHz_5785MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz



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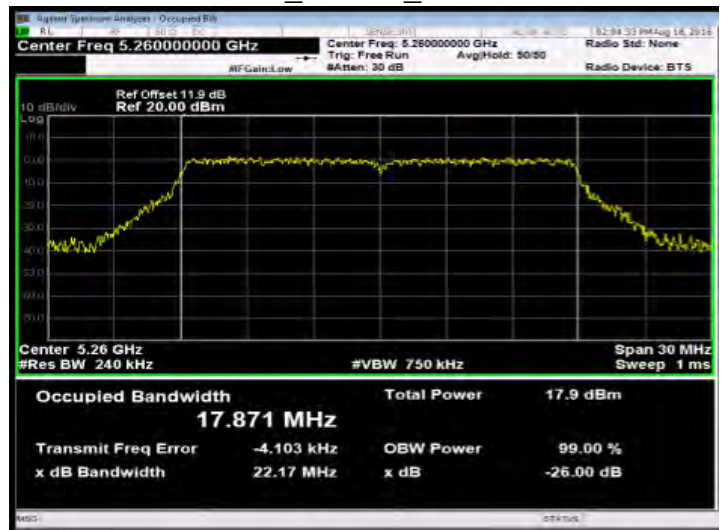
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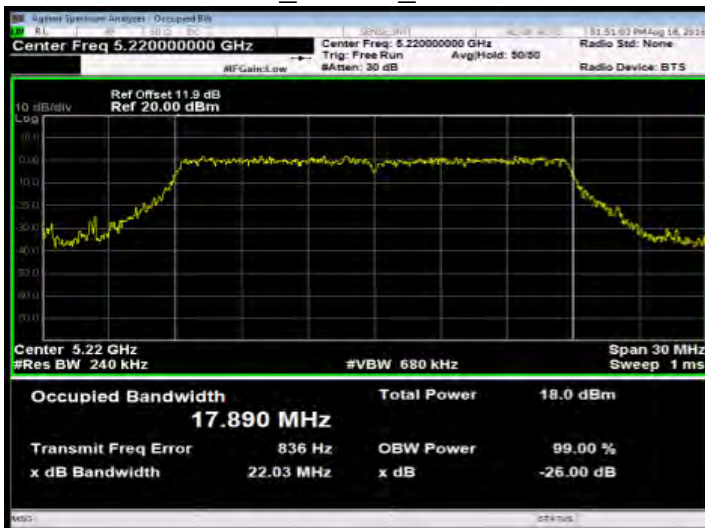
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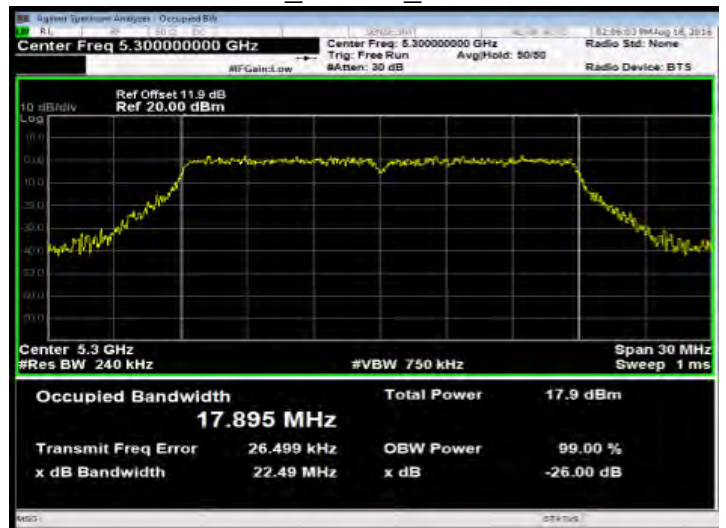
802.11n_20MHz_5260MHz



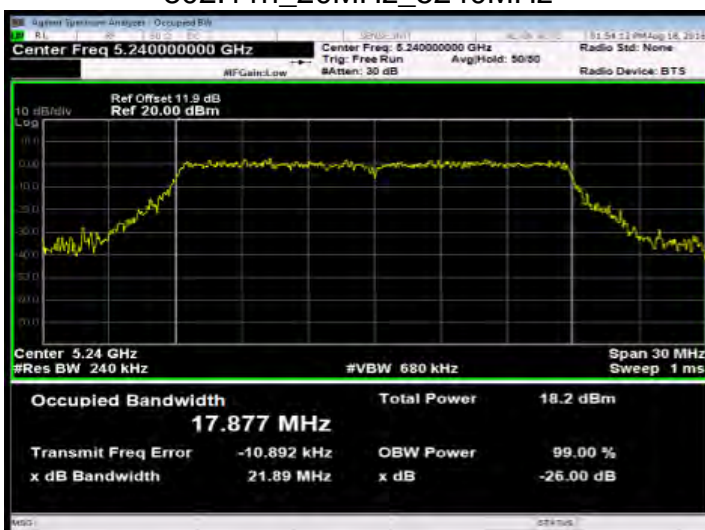
802.11n_20MHz_5220MHz



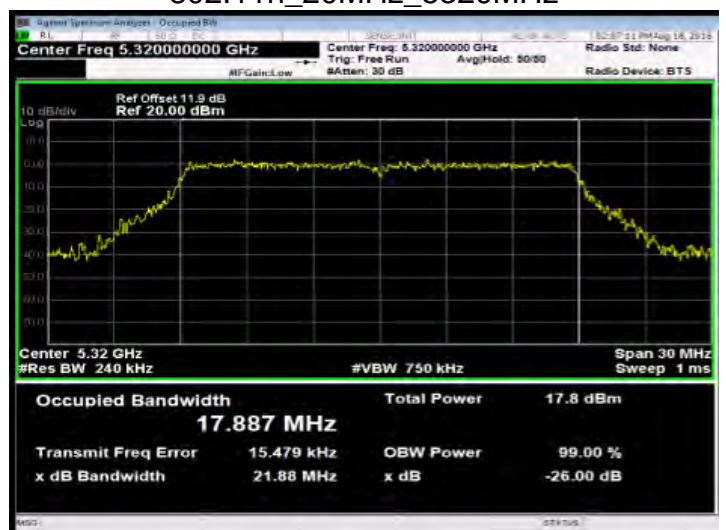
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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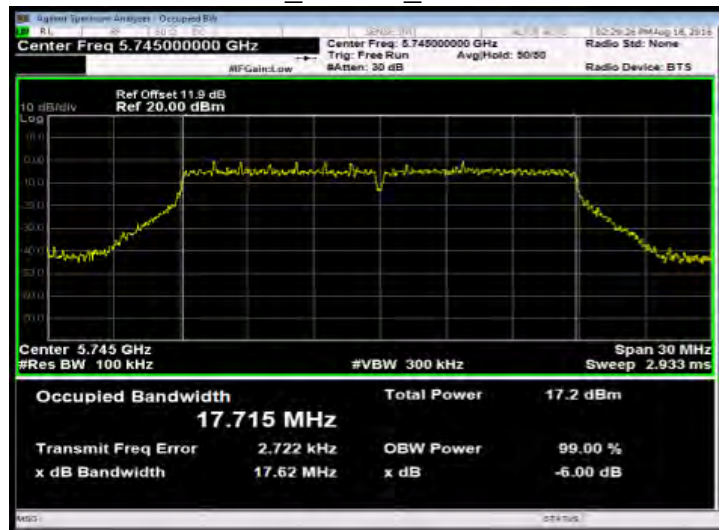
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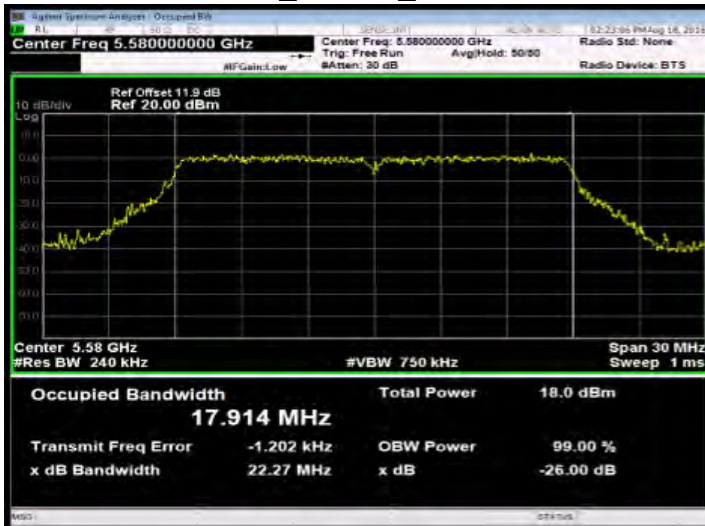
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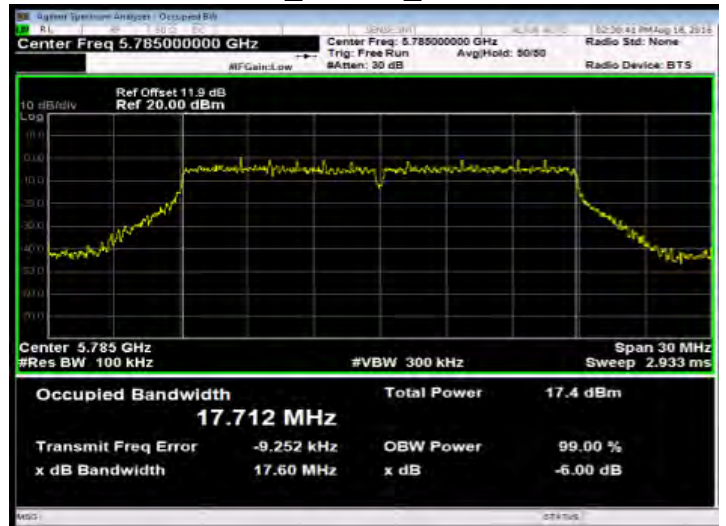
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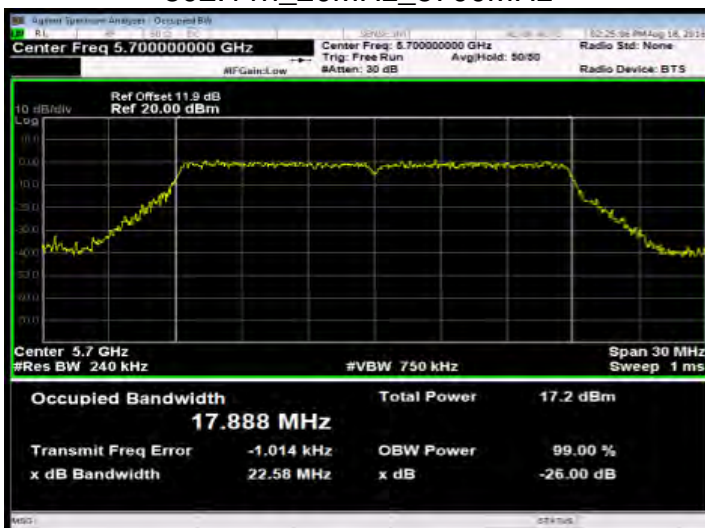
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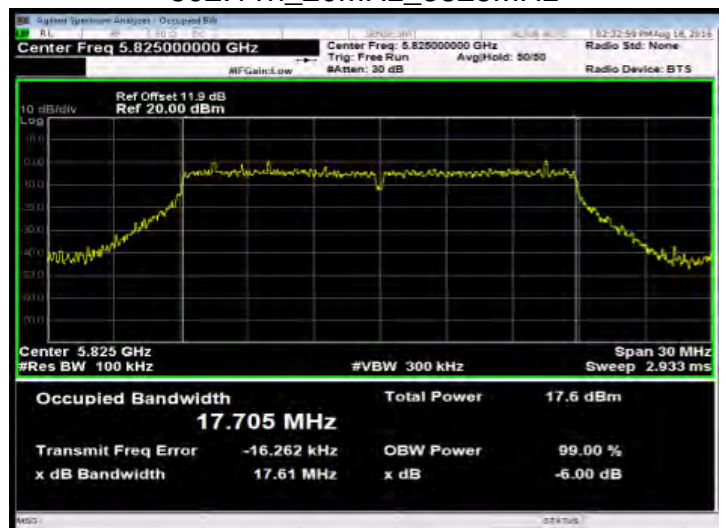
802.11n_20MHz_5785MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz



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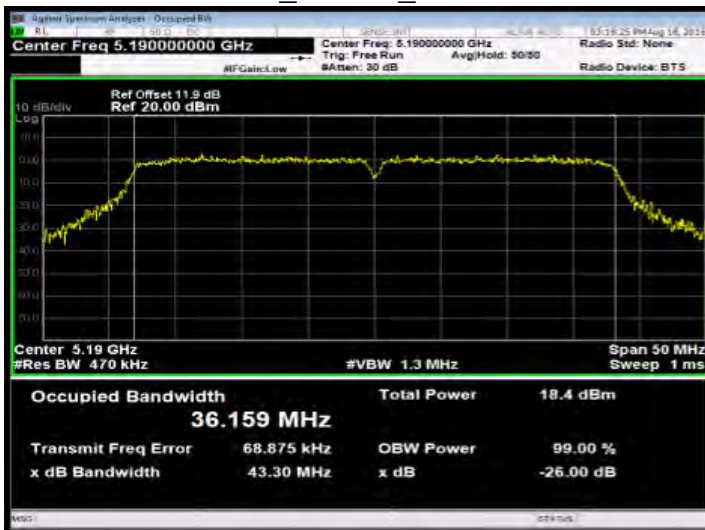
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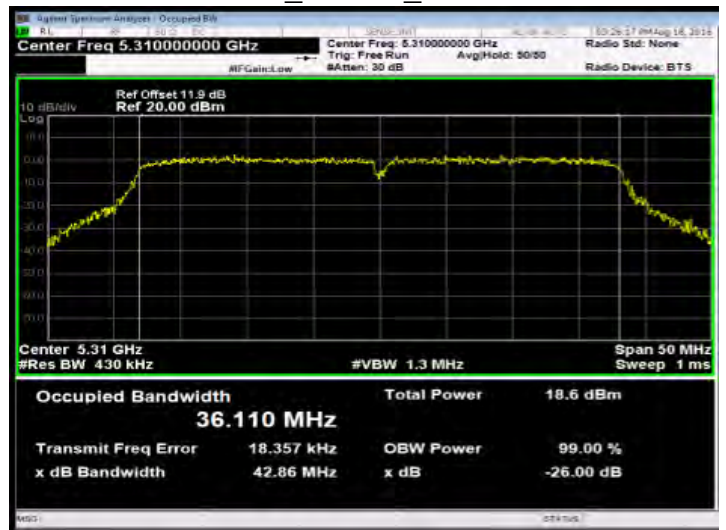
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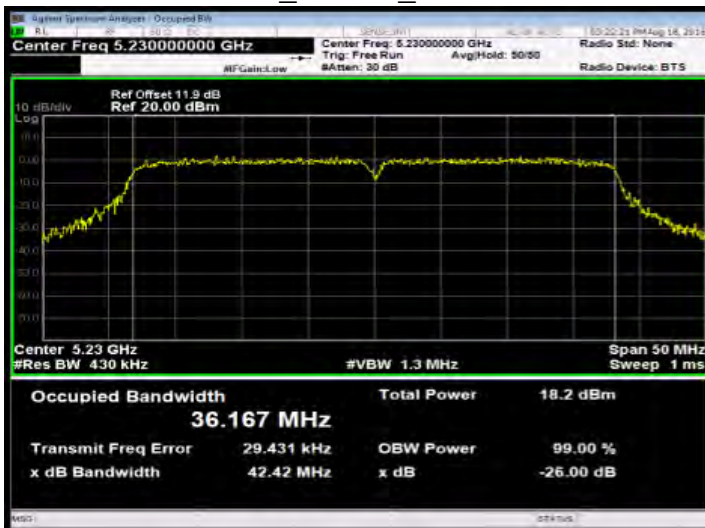
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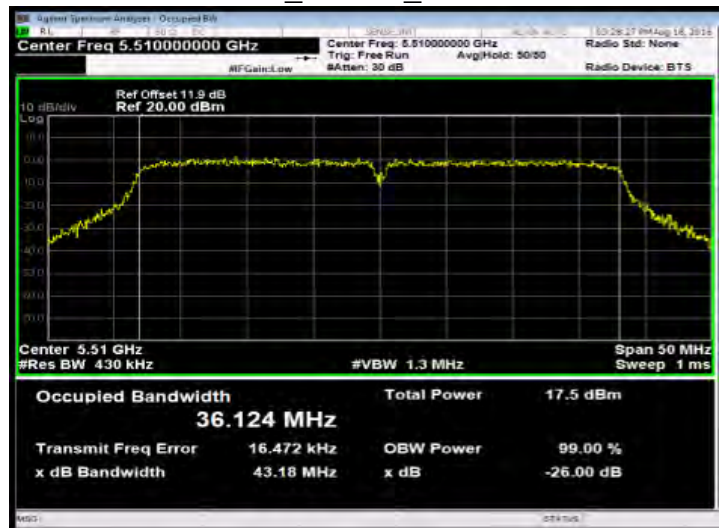
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802.11n_40MHz_5230MHz



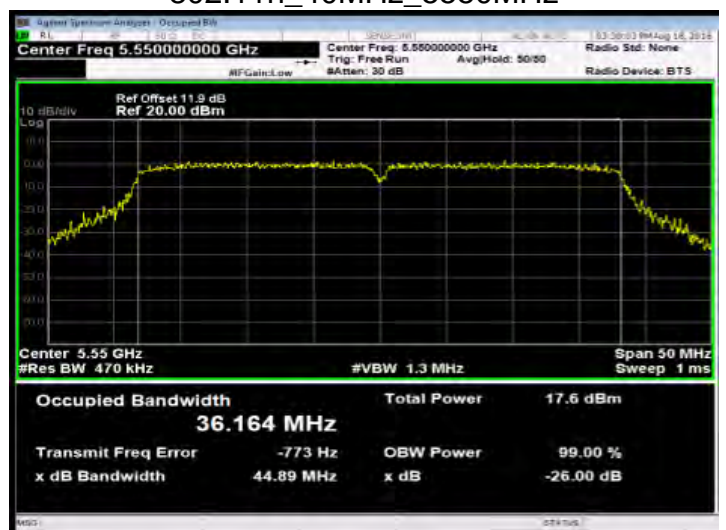
802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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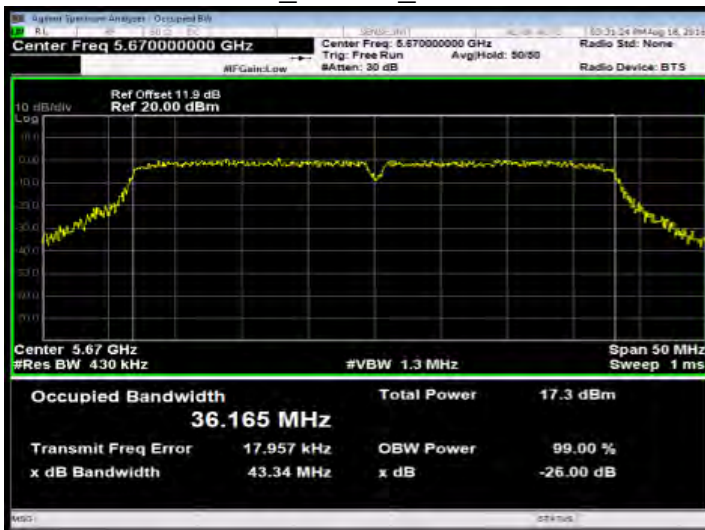
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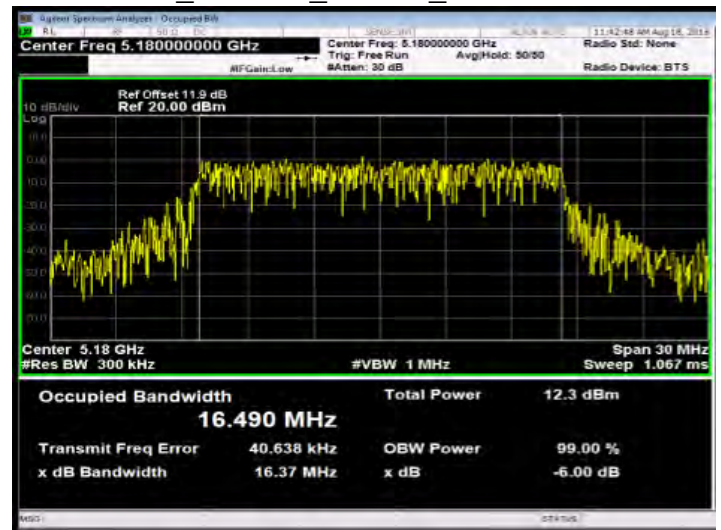
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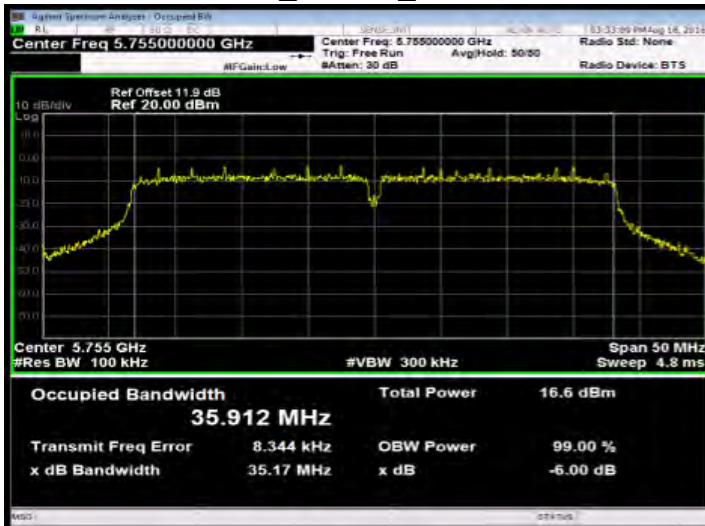
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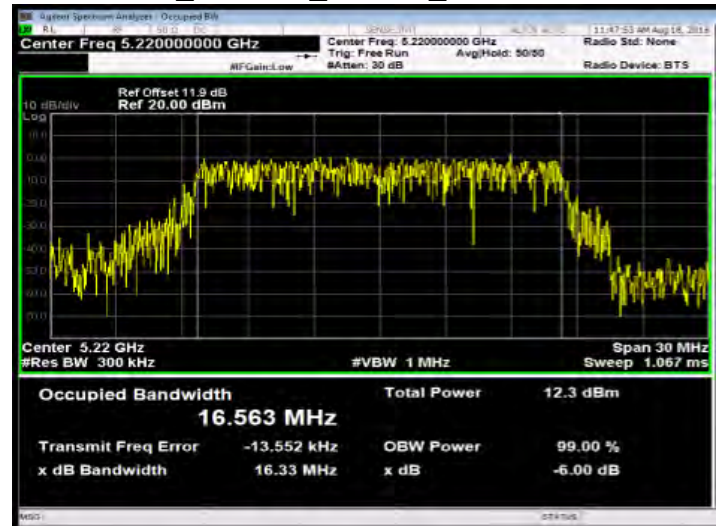
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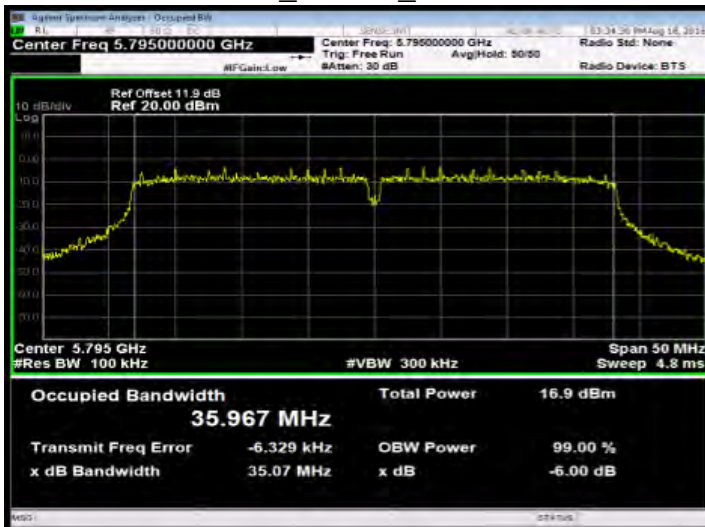
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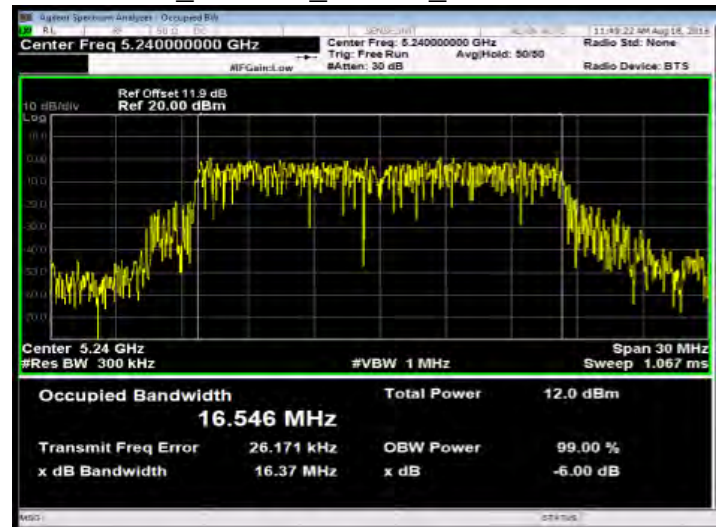
IC_802.11a_20MHz_5220MHz



802.11n_40MHz_5795MHz



IC_802.11a_20MHz_5240MHz



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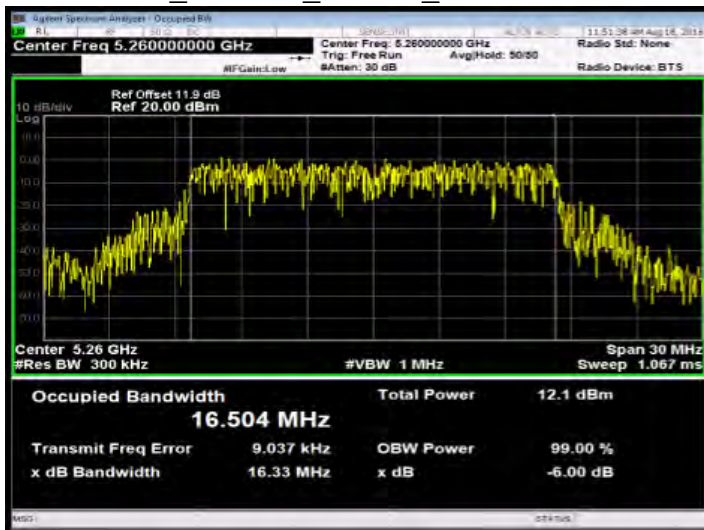
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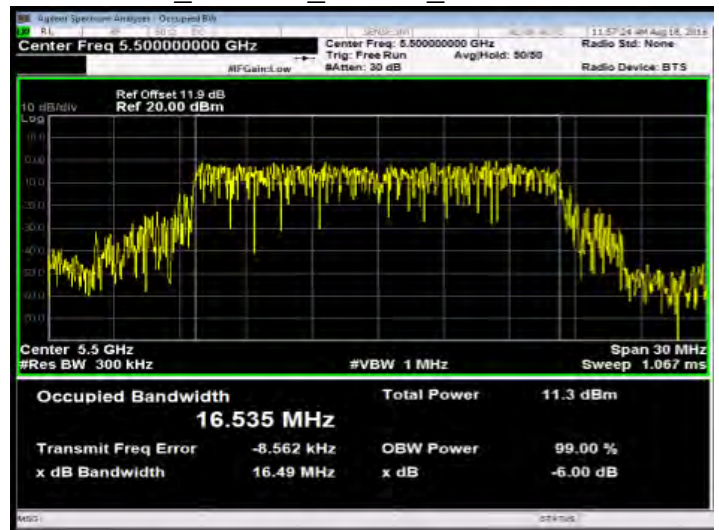
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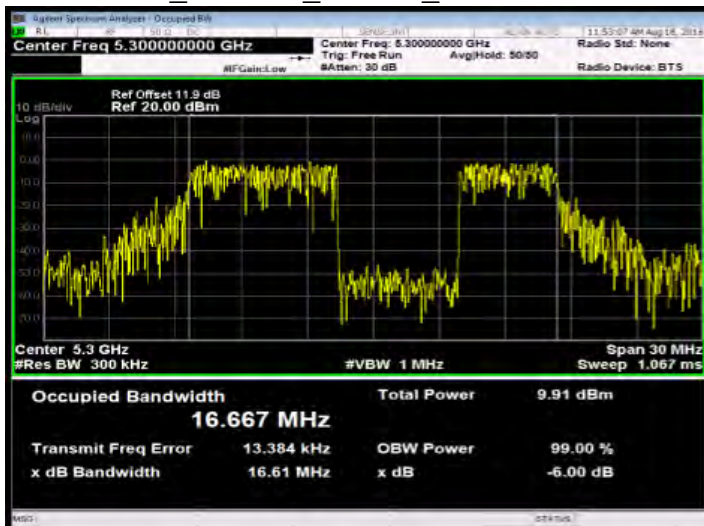
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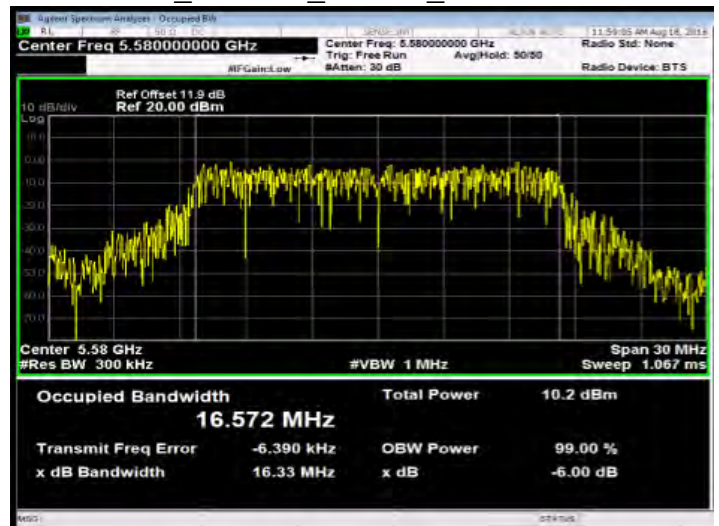
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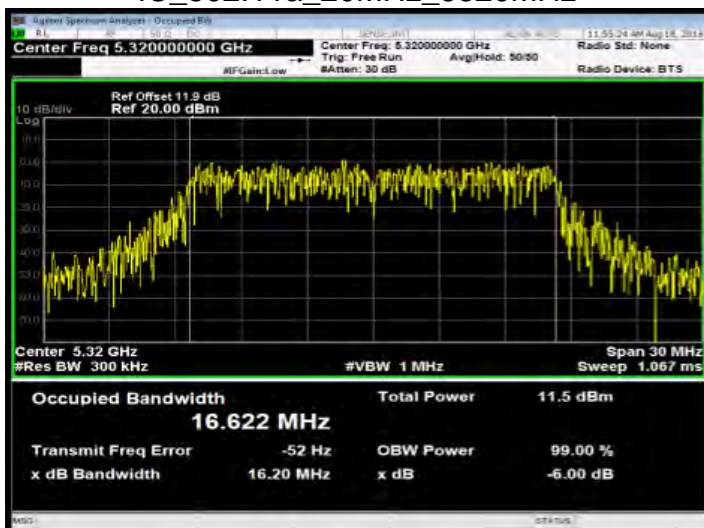
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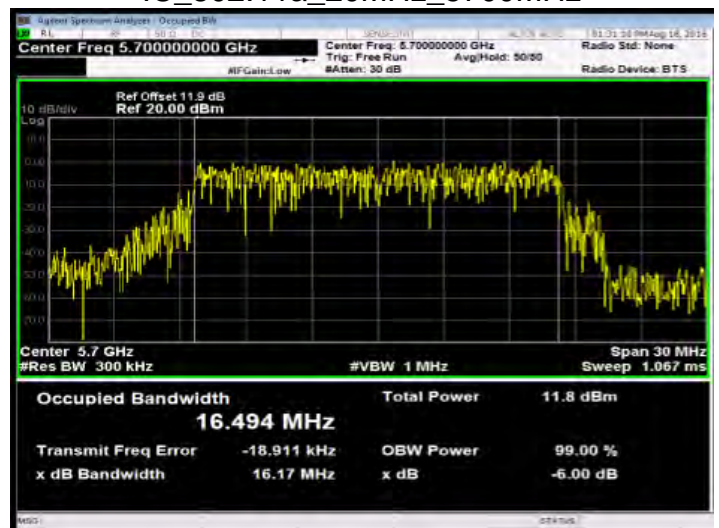
IC_802.11a_20MHz_5580MHz



IC_802.11a_20MHz_5320MHz



IC_802.11a_20MHz_5700MHz



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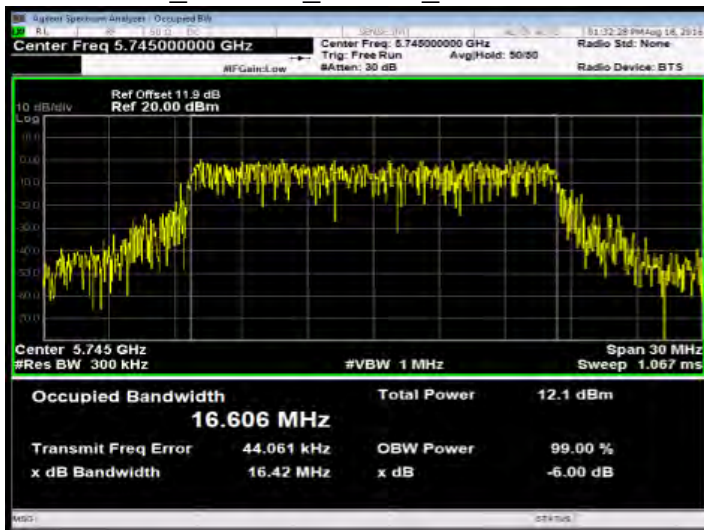
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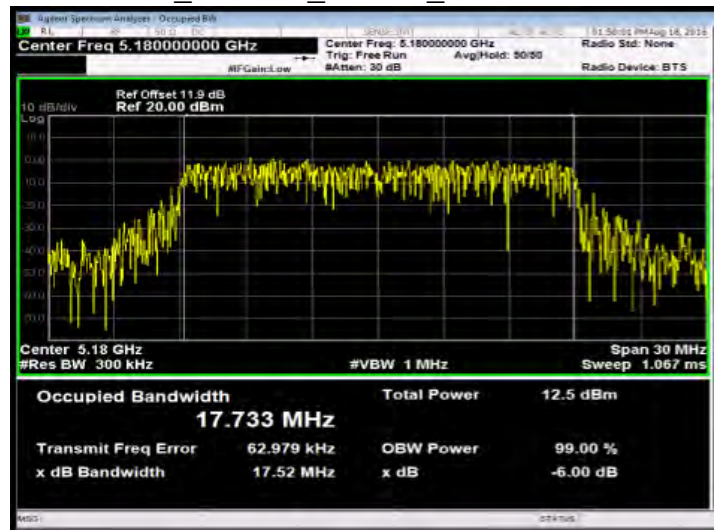
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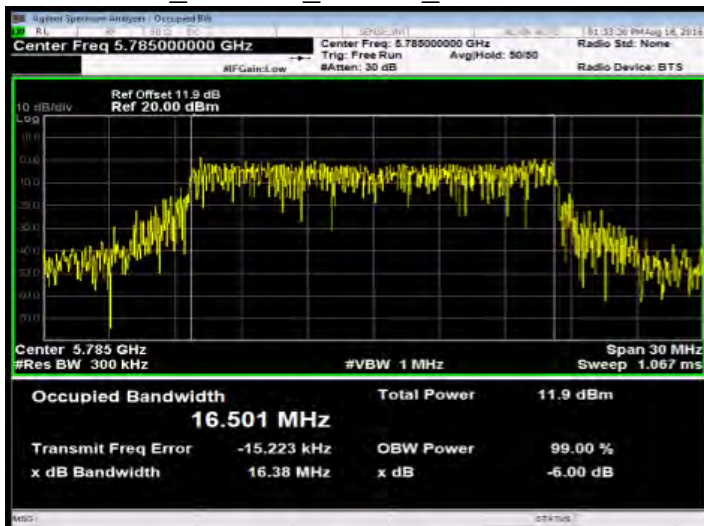
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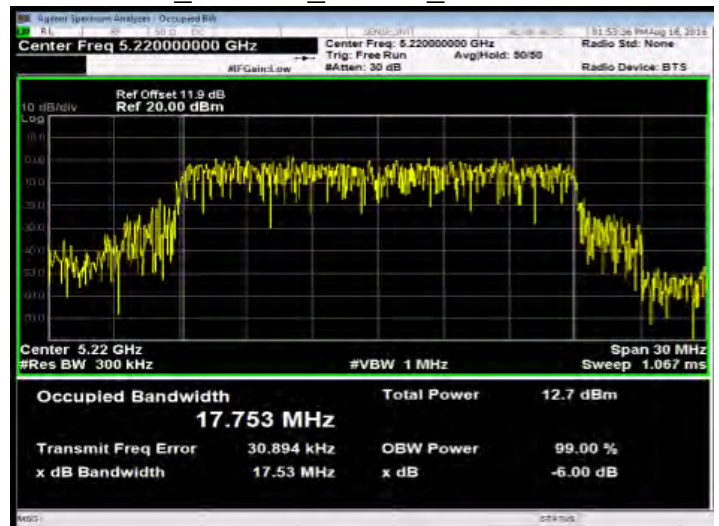
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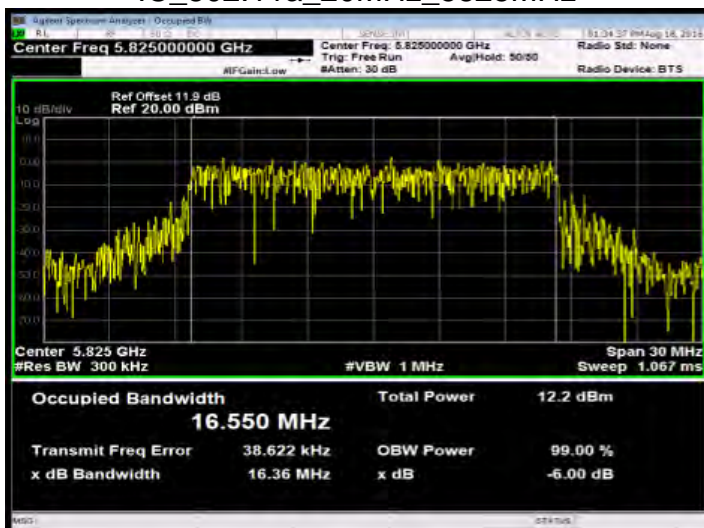
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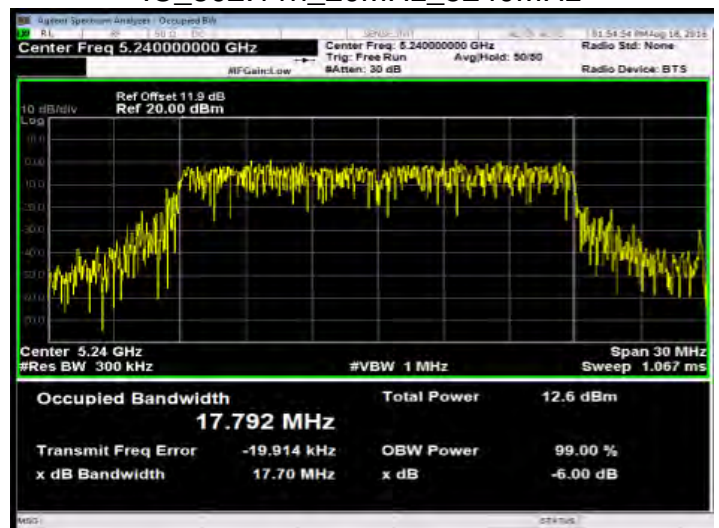
IC_802.11n_20MHz_5220MHz



IC_802.11a_20MHz_5825MHz



IC_802.11n_20MHz_5240MHz



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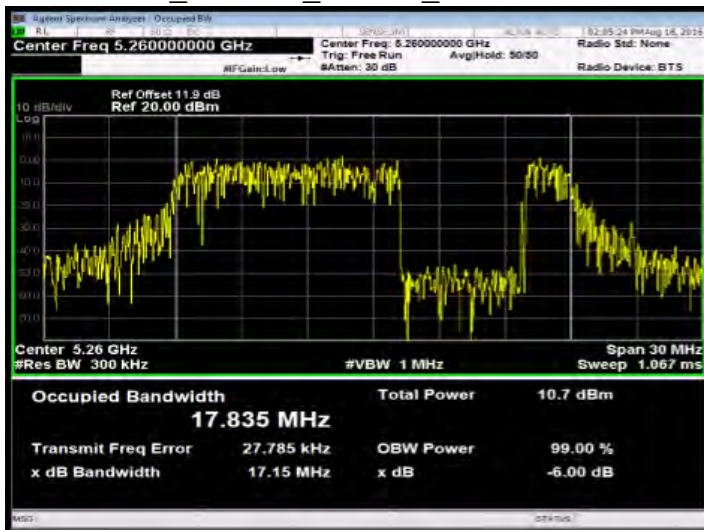
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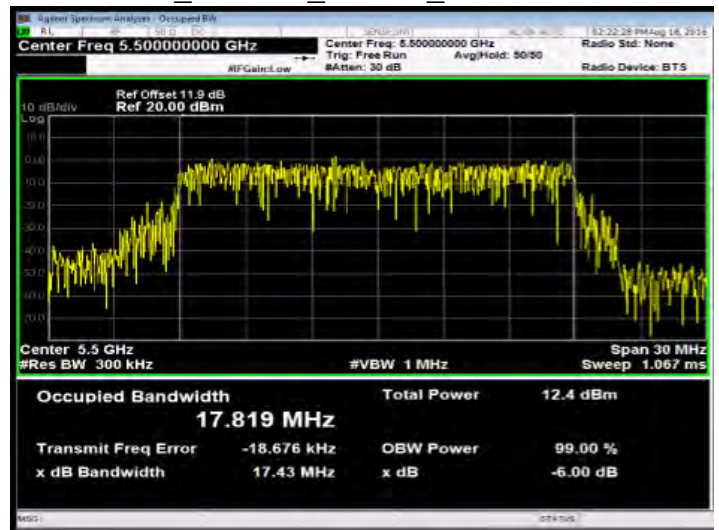
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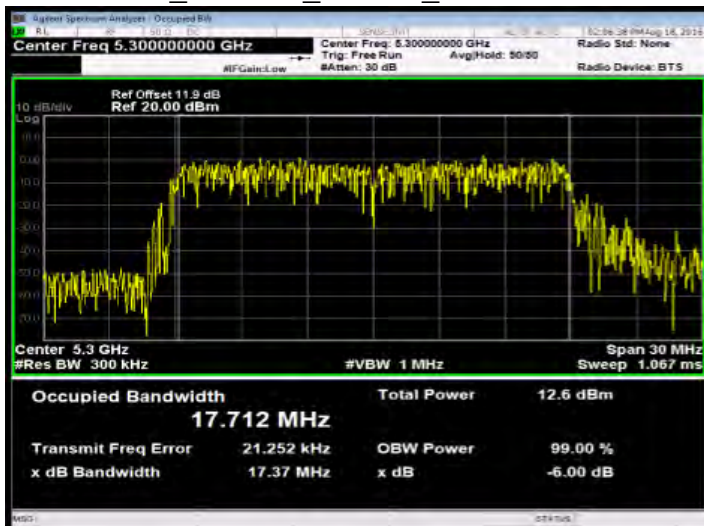
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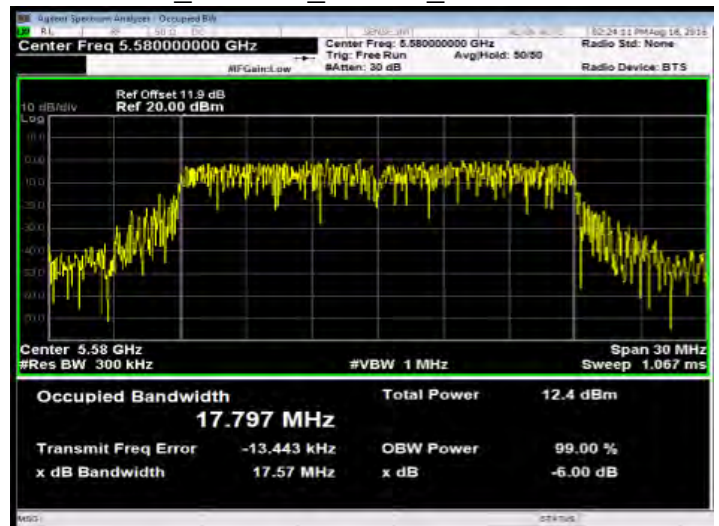
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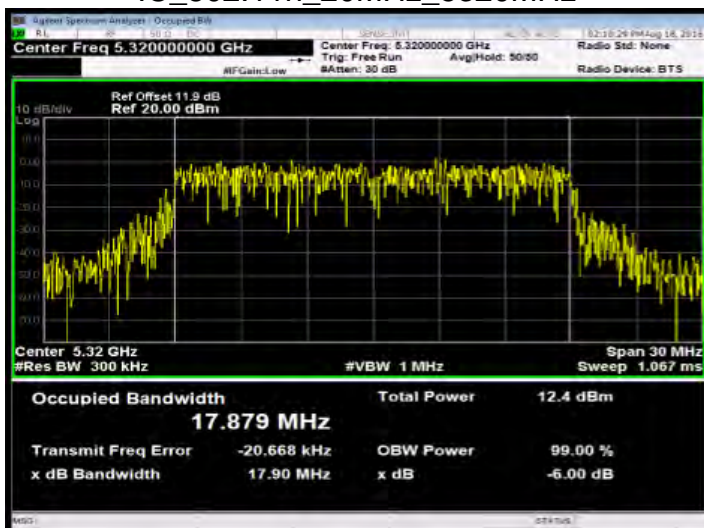
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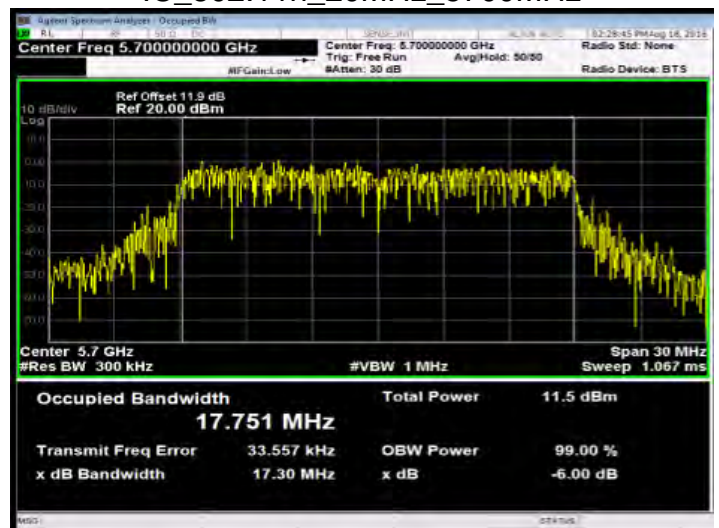
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IC_802.11n_20MHz_5700MHz



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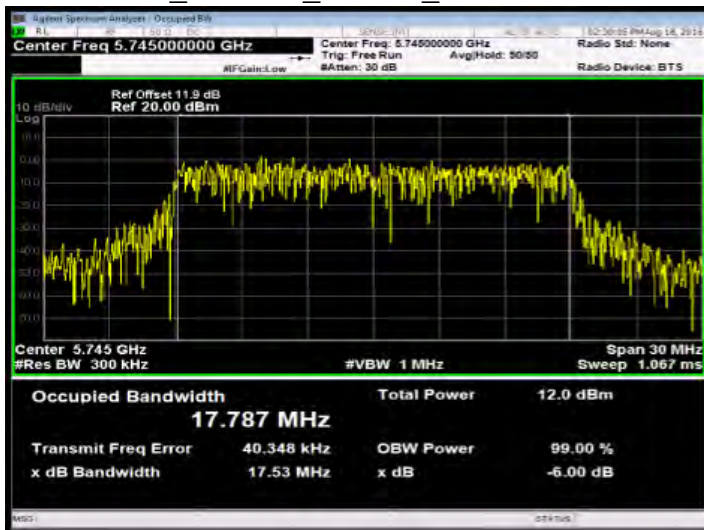
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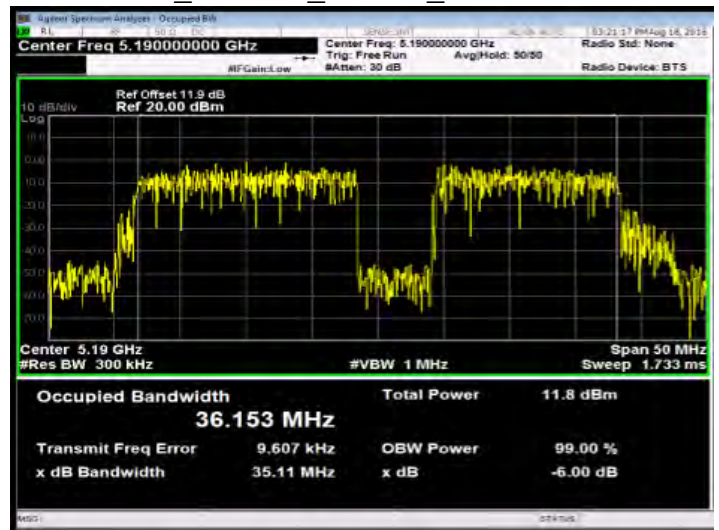
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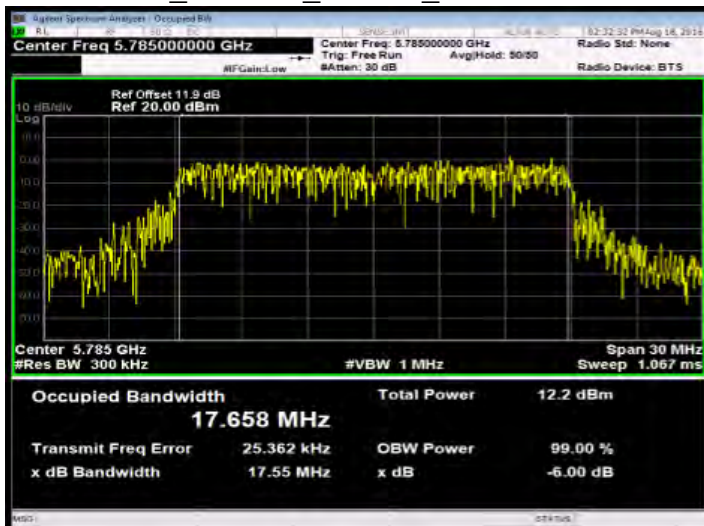
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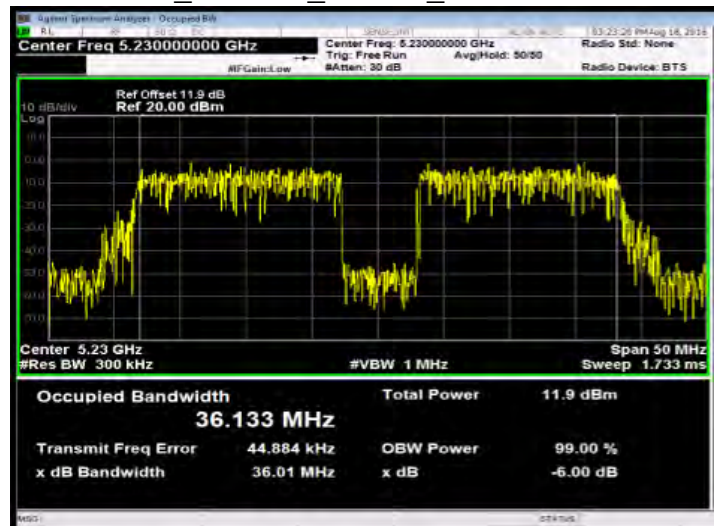
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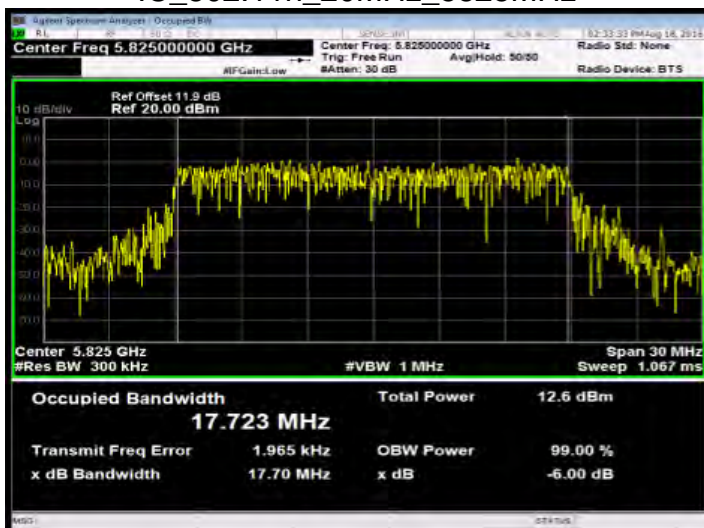
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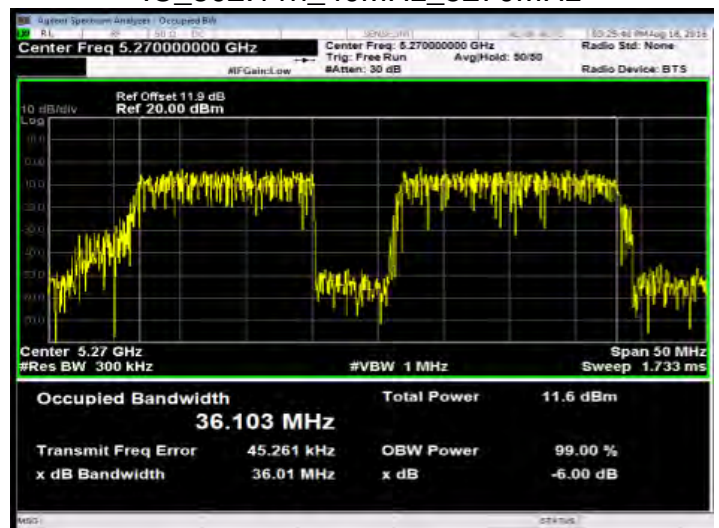
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IC_802.11n_20MHz_5825MHz



IC_802.11n_40MHz_5270MHz



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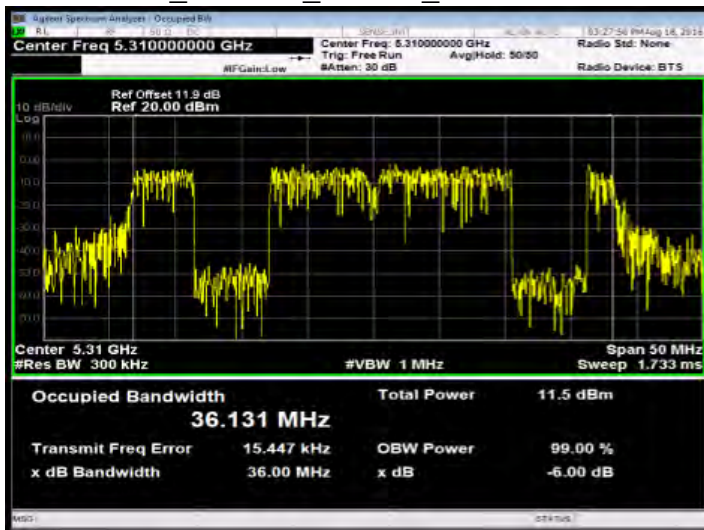
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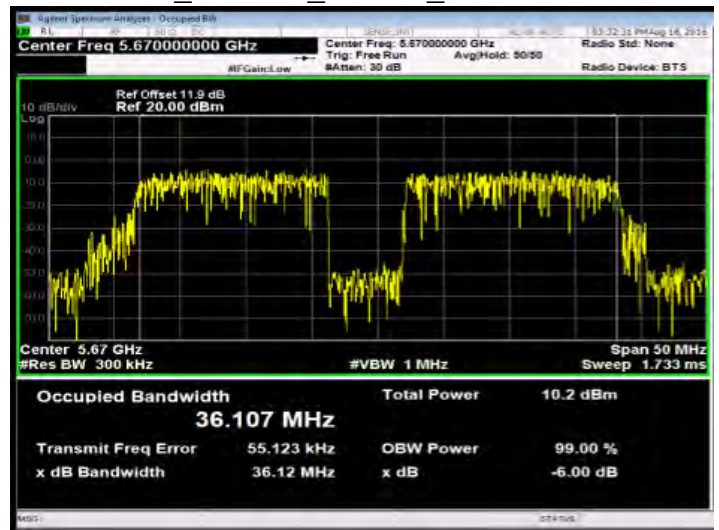
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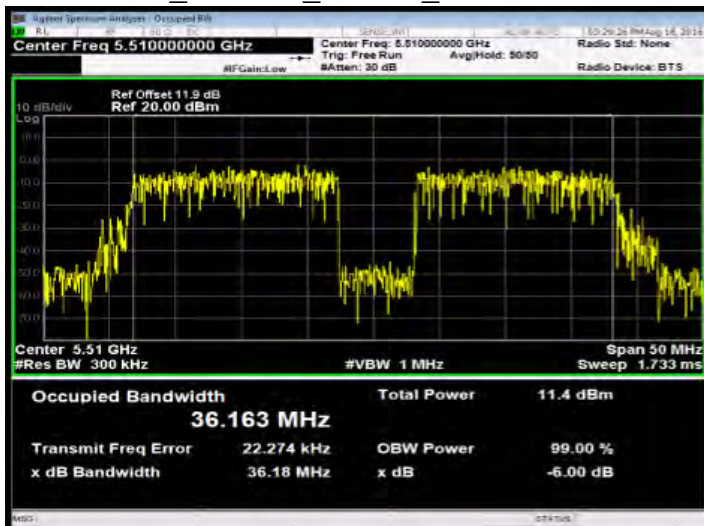
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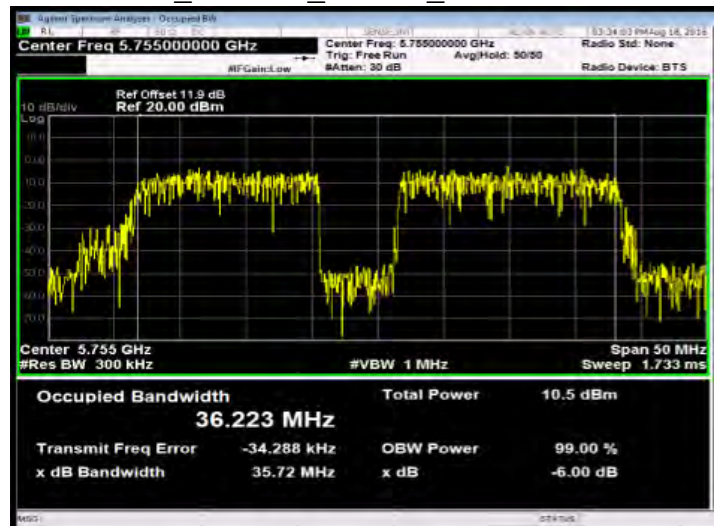
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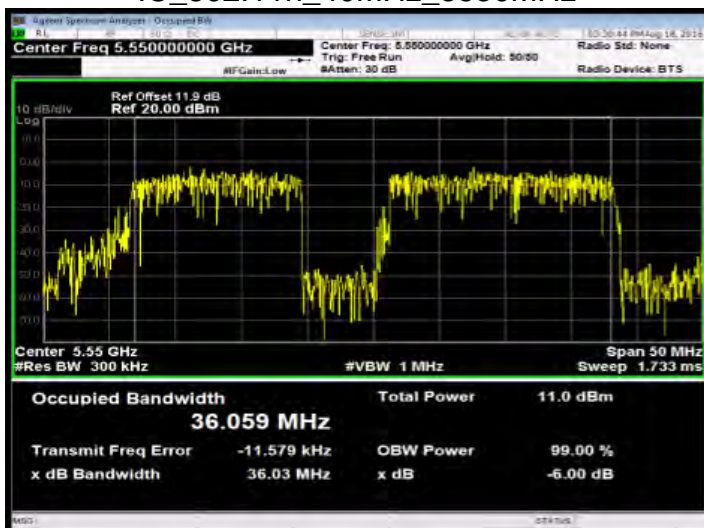
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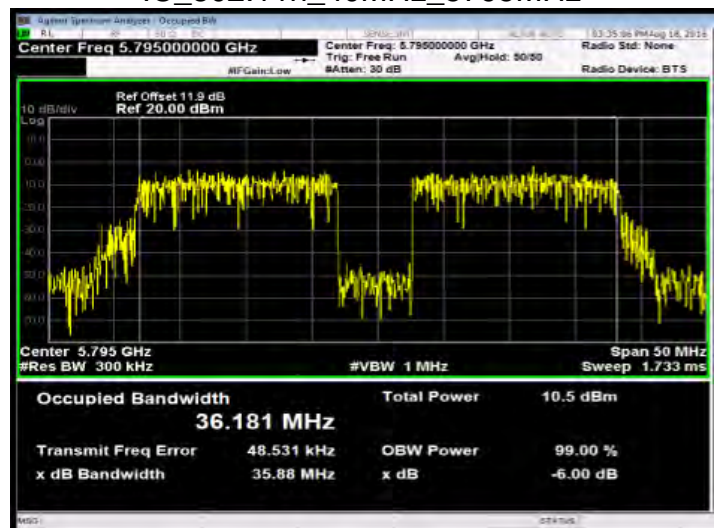
IC_802.11n_40MHz_5755MHz



IC_802.11n_40MHz_5550MHz



IC_802.11n_40MHz_5795MHz



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

| OPERZTION Band | EUT CATEGORY | | LIMIT |
|----------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1 | | Access Point (Mater device) | 1 Watt(30dBm) |
| | | Fixed point-to-point Acess Ponit | 1 Watt(30dBm) |
| | √ | Mobile and portable clinet device | 250mW(23.98dBm) |
| U-NII-2A | √ | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C | √ | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3 | √ | | 1 Watt(30dBm) |

IC

| OPERZTION FREQUENCY BAND | LIMIT |
|---------------------------------|---|
| 5150~5250 MHz | EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm |
| 5250~5350 MHz | Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm |
| 5470-5600 MHz and 5650-5725 MHz | Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm |
| 5725~5850 MHz | Conducted output power shall not exceed 1 W |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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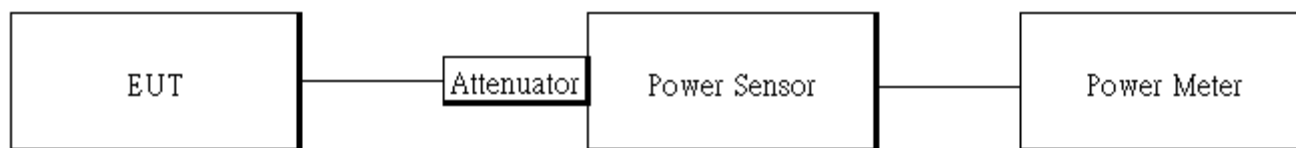
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9.3 Measurement Equipment Used

Refer to section 8.3 for details.

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2016 | 06/22/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

9.4 Test Set-up



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9.5 Measurement Result

FCC

802.11a

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|-----------------------------------|--------|
| 36 | 5180 | MCS0 | 11.98 | 15.776 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.99 | 15.812 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.95 | 15.668 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.83 | 15.241 | 23.98 or $11 + 10\log(B) = 24.37$ | PASS |
| 60 | 5300 | MCS0 | 11.93 | 15.596 | 23.98 or $11 + 10\log(B) = 24.36$ | PASS |
| 64 | 5320 | MCS0 | 11.68 | 14.723 | 23.98 or $11 + 10\log(B) = 24.36$ | PASS |
| 100 | 5500 | MCS0 | 11.84 | 15.276 | 23.98 or $11 + 10\log(B) = 24.41$ | PASS |
| 116 | 5580 | MCS0 | 11.79 | 15.101 | 23.98 or $11 + 10\log(B) = 24.34$ | PASS |
| 140 | 5700 | MCS0 | 11.67 | 14.689 | 23.98 or $11 + 10\log(B) = 24.48$ | PASS |
| 149 | 5745 | MCS0 | 11.93 | 15.596 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.79 | 15.101 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.74 | 14.928 | 30 | PASS |

802.11n_HT20

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|-----------------------------------|--------|
| 36 | 5180 | MCS0 | 11.97 | 15.740 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.83 | 15.241 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.89 | 15.453 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.75 | 14.962 | 23.98 or $11 + 10\log(B) = 24.46$ | PASS |
| 60 | 5300 | MCS0 | 11.88 | 15.417 | 23.98 or $11 + 10\log(B) = 24.52$ | PASS |
| 64 | 5320 | MCS0 | 11.87 | 15.382 | 23.98 or $11 + 10\log(B) = 24.40$ | PASS |
| 100 | 5500 | MCS0 | 11.95 | 15.668 | 23.98 or $11 + 10\log(B) = 24.50$ | PASS |
| 116 | 5580 | MCS0 | 11.94 | 15.631 | 23.98 or $11 + 10\log(B) = 24.48$ | PASS |
| 140 | 5700 | MCS0 | 11.71 | 14.825 | 23.98 or $11 + 10\log(B) = 24.54$ | PASS |
| 149 | 5745 | MCS0 | 11.69 | 14.757 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.77 | 15.031 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.80 | 15.136 | 30 | PASS |

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802.11n_HT40

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|------------------------------|--------|
| 38 | 5190 | MCS0 | 11.79 | 15.101 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 11.89 | 15.453 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 11.79 | 15.101 | 23.98 or 11+10log(B) = 27.39 | PASS |
| 62 | 5310 | MCS0 | 11.83 | 15.241 | 23.98 or 11+10log(B) = 27.32 | PASS |
| 102 | 5510 | MCS0 | 11.96 | 15.704 | 23.98 or 11+10log(B) = 27.35 | PASS |
| 110 | 5550 | MCS0 | 11.98 | 15.776 | 23.98 or 11+10log(B) = 27.52 | PASS |
| 134 | 5670 | MCS0 | 11.79 | 15.101 | 23.98 or 11+10log(B) = 27.37 | PASS |
| 151 | 5755 | MCS0 | 11.31 | 13.521 | 30 | PASS |
| 159 | 5795 | MCS0 | 11.42 | 13.868 | 30 | PASS |

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IC

802.11a

| CH | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|---------------------------------|--------|
| 52 | 5260 | 11.83 | 15.241 | 23.98 or $11+10\log(B) = 23.13$ | PASS |
| 60 | 5300 | 11.93 | 15.596 | 23.98 or $11+10\log(B) = 23.20$ | PASS |
| 64 | 5320 | 11.68 | 14.723 | 23.98 or $11+10\log(B) = 23.09$ | PASS |
| 100 | 5500 | 11.84 | 15.276 | 23.98 or $11+10\log(B) = 23.17$ | PASS |
| 116 | 5580 | 11.79 | 15.101 | 23.98 or $11+10\log(B) = 23.13$ | PASS |
| 140 | 5700 | 11.67 | 14.689 | 23.98 or $11+10\log(B) = 23.09$ | PASS |
| 149 | 5745 | 11.93 | 15.596 | 30 | PASS |
| 157 | 5785 | 11.79 | 15.101 | 30 | PASS |
| 165 | 5825 | 11.74 | 14.928 | 30 | PASS |

802.11n_HT20

| CH | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|---------------------------------|--------|
| 52 | 5260 | 11.75 | 14.962 | 23.98 or $11+10\log(B) = 23.34$ | PASS |
| 60 | 5300 | 11.88 | 15.417 | 23.98 or $11+10\log(B) = 23.40$ | PASS |
| 64 | 5320 | 11.87 | 15.382 | 23.98 or $11+10\log(B) = 23.53$ | PASS |
| 100 | 5500 | 11.95 | 15.668 | 23.98 or $11+10\log(B) = 23.41$ | PASS |
| 116 | 5580 | 11.94 | 15.631 | 23.98 or $11+10\log(B) = 23.45$ | PASS |
| 140 | 5700 | 11.71 | 14.825 | 23.98 or $11+10\log(B) = 23.38$ | PASS |
| 149 | 5745 | 11.69 | 14.757 | 30 | PASS |
| 157 | 5785 | 11.77 | 15.031 | 30 | PASS |
| 165 | 5825 | 11.80 | 15.136 | 30 | PASS |

802.11n_HT40

| CH | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|---------------------------------|--------|
| 54 | 5270 | 11.79 | 15.101 | 23.98 or $11+10\log(B) = 26.56$ | PASS |
| 62 | 5310 | 11.83 | 15.241 | 23.98 or $11+10\log(B) = 26.56$ | PASS |
| 102 | 5510 | 11.96 | 15.704 | 23.98 or $11+10\log(B) = 26.58$ | PASS |
| 110 | 5550 | 11.98 | 15.776 | 23.98 or $11+10\log(B) = 26.57$ | PASS |
| 134 | 5670 | 11.79 | 15.101 | 23.98 or $11+10\log(B) = 26.58$ | PASS |
| 151 | 5755 | 11.31 | 13.521 | 30 | PASS |
| 159 | 5795 | 11.42 | 13.868 | 30 | PASS |

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802.11a

| CH | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-------------------------------|--------|
| 36 | 5180 | 11.98 | 2.880 | 14.86 | 23.01 or $10+10\log(B)=22.14$ | PASS |
| 44 | 5220 | 11.99 | 2.880 | 14.87 | 23.01 or $10+10\log(B)=22.13$ | PASS |
| 48 | 5240 | 11.95 | 2.880 | 14.83 | 23.01 or $10+10\log(B)=22.14$ | PASS |
| 52 | 5260 | 11.83 | 3.800 | 15.63 | 30 or $17+10\log(B)=29.13$ | PASS |
| 60 | 5300 | 11.93 | 3.800 | 15.73 | 30 or $17+10\log(B)=29.20$ | PASS |
| 64 | 5320 | 11.68 | 3.800 | 15.48 | 30 or $17+10\log(B)=29.09$ | PASS |
| 100 | 5500 | 11.84 | 3.640 | 15.48 | 30 or $17+10\log(B)=29.17$ | PASS |
| 116 | 5580 | 11.79 | 3.640 | 15.43 | 30 or $17+10\log(B)=29.13$ | PASS |
| 140 | 5700 | 11.67 | 3.640 | 15.31 | 30 or $17+10\log(B)=29.09$ | PASS |

802.11n_HT20

| CH | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-------------------------------|--------|
| 36 | 5180 | 11.97 | 2.880 | 14.85 | 23.01 or $10+10\log(B)=22.44$ | PASS |
| 44 | 5220 | 11.83 | 2.880 | 14.71 | 23.01 or $10+10\log(B)=22.44$ | PASS |
| 48 | 5240 | 11.89 | 2.880 | 14.77 | 23.01 or $10+10\log(B)=22.48$ | PASS |
| 52 | 5260 | 11.75 | 3.800 | 15.55 | 30 or $17+10\log(B)=29.34$ | PASS |
| 60 | 5300 | 11.88 | 3.800 | 15.68 | 30 or $17+10\log(B)=29.40$ | PASS |
| 64 | 5320 | 11.87 | 3.800 | 15.67 | 30 or $17+10\log(B)=29.53$ | PASS |
| 100 | 5500 | 11.95 | 3.640 | 15.59 | 30 or $17+10\log(B)=29.41$ | PASS |
| 116 | 5580 | 11.94 | 3.640 | 15.58 | 30 or $17+10\log(B)=29.45$ | PASS |
| 140 | 5700 | 11.71 | 3.640 | 15.35 | 30 or $17+10\log(B)=29.38$ | PASS |

802.11n_HT40

| CH | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-------------------------------|--------|
| 38 | 5190 | 11.79 | 2.880 | 14.67 | 23.01 or $10+10\log(B)=25.45$ | PASS |
| 46 | 5230 | 11.89 | 2.880 | 14.77 | 23.01 or $10+10\log(B)=25.56$ | PASS |
| 54 | 5270 | 11.79 | 3.800 | 15.59 | 30 or $17+10\log(B)=32.56$ | PASS |
| 62 | 5310 | 11.83 | 3.800 | 15.63 | 30 or $17+10\log(B)=32.56$ | PASS |
| 102 | 5510 | 11.96 | 3.640 | 15.60 | 30 or $17+10\log(B)=32.58$ | PASS |
| 110 | 5550 | 11.98 | 3.640 | 15.62 | 30 or $17+10\log(B)=32.57$ | PASS |
| 134 | 5670 | 11.79 | 3.640 | 15.43 | 30 or $17+10\log(B)=32.58$ | PASS |

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

| OPERATION Band | EUT CATEGORY | | LIMIT |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1 | | Access Point (Mater device) | 17dBm/ MHz |
| | | Fixed point-to-point Acess Ponit | |
| | ✓ | Mobile and portable clinet device | 11dBm/ MHz |
| U-NII-2A | ✓ | | 11dBm/ MHz |
| U-NII-2C | ✓ | | 11dBm/ MHz |
| U-NII-3 | ✓ | | 30dBm/ 500kHz |

IC

| OPERATION FREQUENCY BAND | LIMIT |
|---------------------------------|------------------------------------|
| 5150~5250 MHz | EIRP spectral density 10 dBm / MHz |
| 5250~5350 MHz | 11dBm / MHz |
| 5470-5600 MHz and 5650-5725 MHz | 11dBm / MHz |
| 5725~5850 MHz | 30dBm / 500 kHz |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

10.3 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

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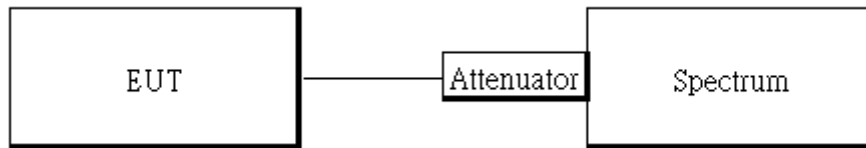
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10.4 Test Set-up



10.5 Measurement Result

| POWER DENSITY 802.11a MODE | | | | POWER DENSITY 802.11n HT20 MODE | | | |
|----------------------------|------------|-------------|-------------|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -1.59 | 17 | -18.59 | 5180 | -3.53 | 17 | -20.53 |
| 5220 | -3.35 | 17 | -20.35 | 5220 | -4.45 | 17 | -21.45 |
| 5240 | -1.58 | 17 | -18.58 | 5240 | -2.46 | 17 | -19.46 |
| 5260 | -1.23 | 11 | -12.23 | 5260 | -3.89 | 11 | -14.89 |
| 5300 | -2.90 | 11 | -13.90 | 5300 | -3.40 | 11 | -14.40 |
| 5320 | -5.28 | 11 | -16.28 | 5320 | -4.63 | 11 | -15.63 |
| 5500 | -3.75 | 11 | -14.75 | 5500 | -4.42 | 11 | -15.42 |
| 5580 | -3.92 | 11 | -14.92 | 5580 | -3.86 | 11 | -14.86 |
| 5700 | -3.19 | 11 | -14.19 | 5700 | -5.32 | 11 | -16.32 |
| 5745 | 5.68 | 30 | -24.32 | 5745 | 4.76 | 30 | -25.24 |
| 5785 | 4.97 | 30 | -25.03 | 5785 | 4.98 | 30 | -25.02 |
| 5825 | 5.47 | 30 | -24.53 | 5825 | 5.12 | 30 | -24.88 |

| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190 | -3.4 | 17 | -20.40 |
| 5230 | -3.68 | 17 | -20.68 |
| 5270 | -3.95 | 11 | -14.95 |
| 5310 | -4.16 | 11 | -15.16 |
| 5510 | -3.3 | 11 | -14.30 |
| 5550 | -4.23 | 11 | -15.23 |
| 5670 | -3.54 | 11 | -14.54 |
| 5755 | 1.39 | 30 | -28.61 |
| 5795 | 1.48 | 30 | -28.52 |

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EIRP

| EIRP spectral density 802.11a MODE | | | | | |
|------------------------------------|------------|-----------------|---------------|-------------|-------------|
| Freq. (MHz) | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -1.59 | 2.88 | 1.29 | 10 | -11.59 |
| 5220 | -3.35 | 2.88 | -0.47 | 10 | -13.35 |
| 5240 | -1.58 | 2.88 | 1.30 | 10 | -11.58 |

| EIRP spectral density 802.11n HT20 MODE | | | | | |
|---|------------|-----------------|---------------|-------------|-------------|
| Freq. (MHz) | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -3.53 | 2.88 | -0.65 | 10 | -13.53 |
| 5220 | -4.45 | 2.88 | -1.57 | 10 | -14.45 |
| 5240 | -2.46 | 2.88 | 0.42 | 10 | -12.46 |

| EIRP spectral density 802.11n HT40 MODE | | | | | |
|---|------------|-----------------|---------------|-------------|-------------|
| Freq. (MHz) | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -3.40 | 2.88 | -0.52 | 10 | -13.40 |
| 5220 | -3.68 | 2.88 | -0.80 | 10 | -13.68 |

Note:

offset 11.9dB

offset

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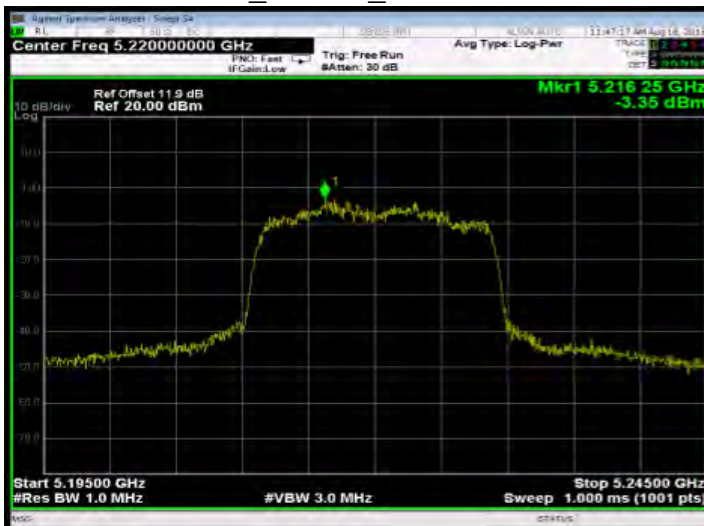
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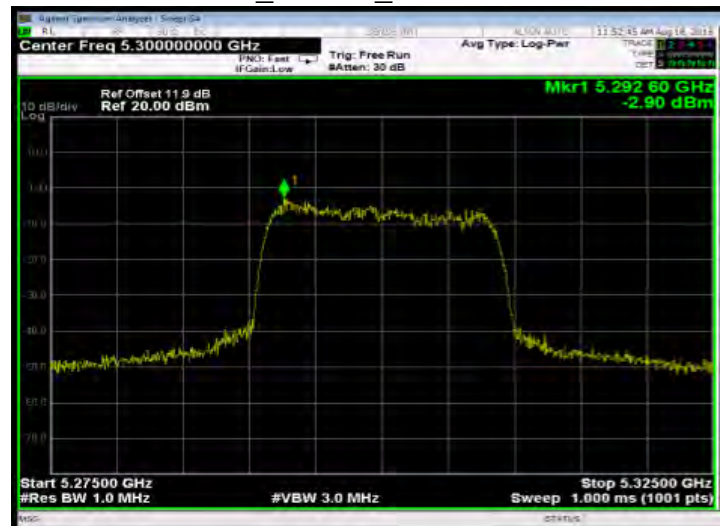
802.11a_20MHz_5260MHz



802.11a_20MHz_5220MHz



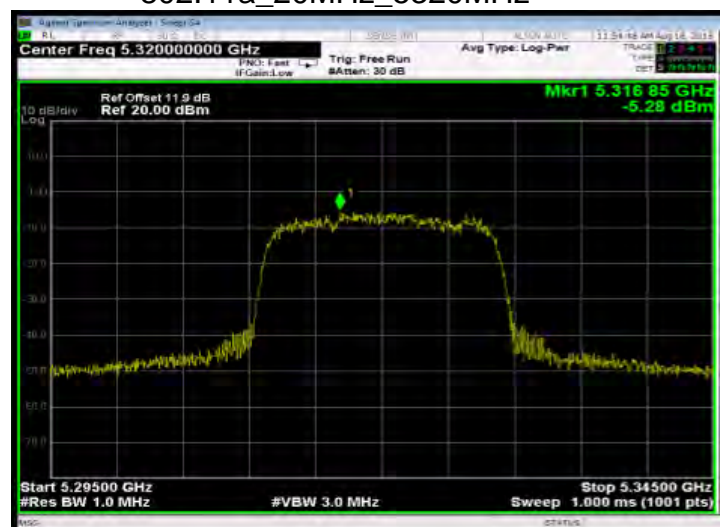
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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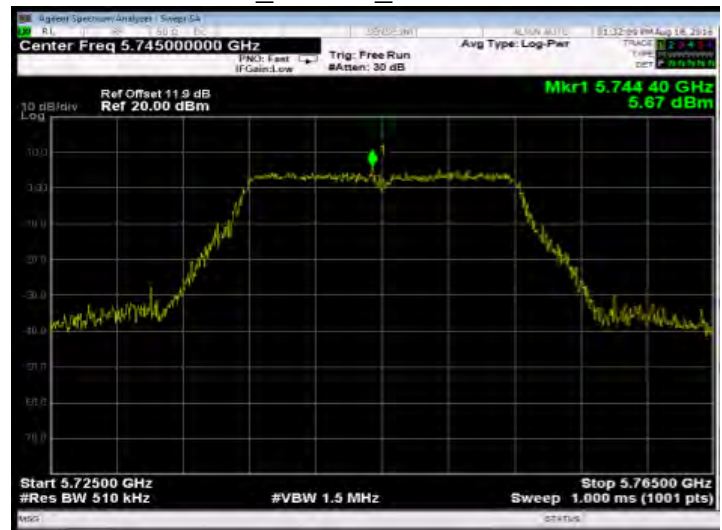
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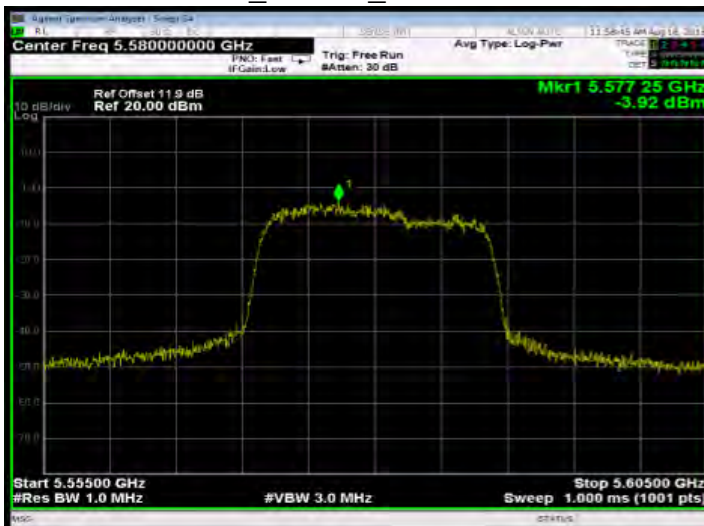
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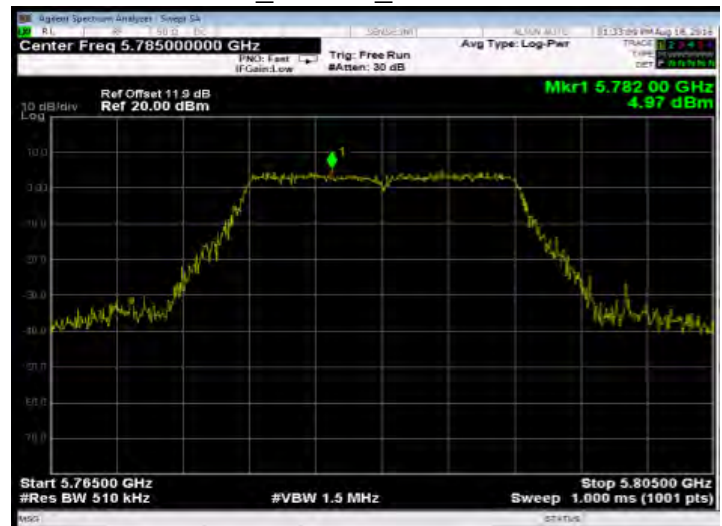
802.11a_20MHz_5745MHz



802.11a_20MHz_5580MHz



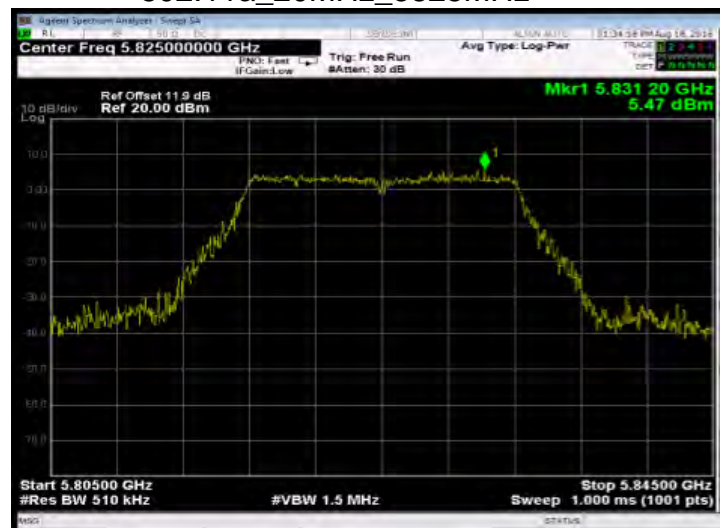
802.11a_20MHz_5785MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz



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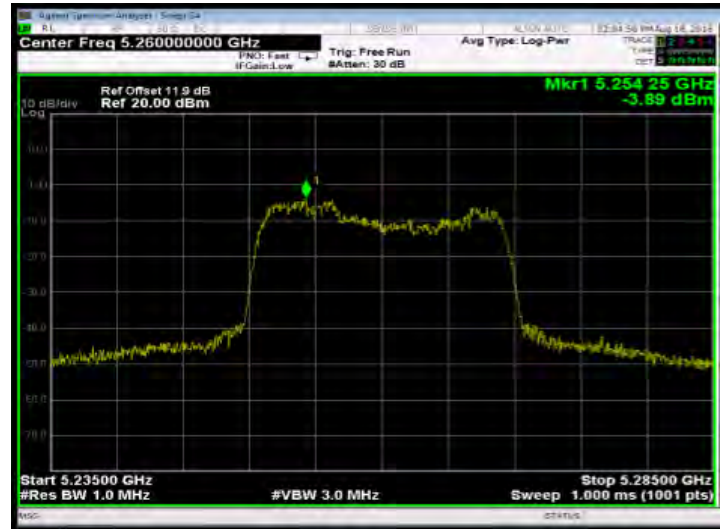
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802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz



802.11n_20MHz_5220MHz



802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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802.11n_20MHz_5745MHz



802.11n_20MHz_5580MHz



802.11n_20MHz_5785MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz



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802.11n_40MHz_5190MHz



802.11n_40MHz_5310MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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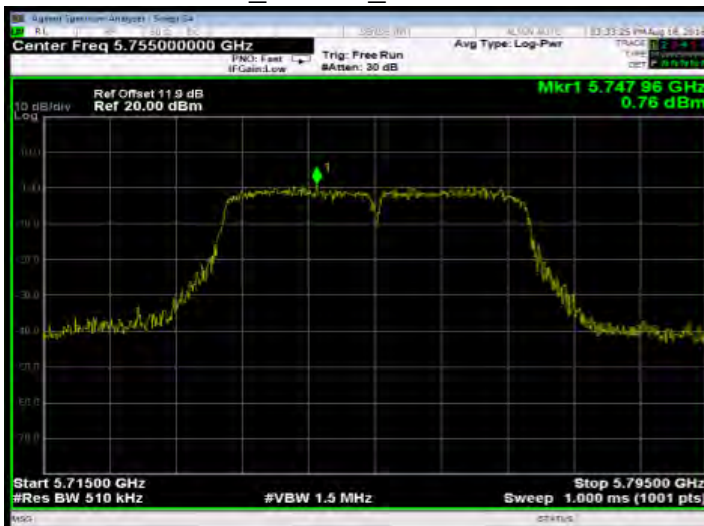
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802.11n_40MHz_5670MHz



802.11n_40MHz_5755MHz



802.11n_40MHz_5795MHz



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| APPLICABLE TO | LIMIT | |
|--|---|---|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules | FIELD STRENGTH AT 3m | |
| | PK: 74 (dBμV/m) | AV 54 (dBμV/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.3 (dBμV/m) |
| 15.407(b)(2) | | |
| 15.407(b)(3) | | |
| 15.407(b)(4)(i) | PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4 |
| *1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | | |

EIRP = $(E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts..

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(KHz) | 300 |
| 0.490-1.705 | 24000/F(KHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

| SGS 966 Chamber No.C | | | | | |
|------------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/04/2015 | 05/03/2016 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2015 | 01/28/2016 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 12/22/2014 | 12/21/2015 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 09/23/2015 | 09/22/2016 |
| Loop Antenna | ETS.LINDGREN | 6502 | 00143303 | 12/9/2014 | 12/08/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/23/2014 | 12/22/2015 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/05/2015 | 05/04/2016 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/25/2014 | 12/24/2015 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | Agilent | 8449B | 3008A00578 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/02/2015 | 01/01/2016 |
| 5150-5350 Band Reject Filter | Micro-Tronics | BRM50703 | 1 | 01/02/2015 | 01/01/2016 |
| 5470-5725 Band Reject Filter | Micro-Tronics | BRM50704 | 1 | 01/02/2015 | 01/01/2016 |
| 5725-5875 Band Reject Filter | Micro-Tronics | BRM50705 | 1 | 01/02/2015 | 01/01/2016 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 01/02/2015 | 01/01/2016 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 060776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_Rx | 9 | 01/02/2015 | 01/01/2016 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2015 | 06/30/2016 |

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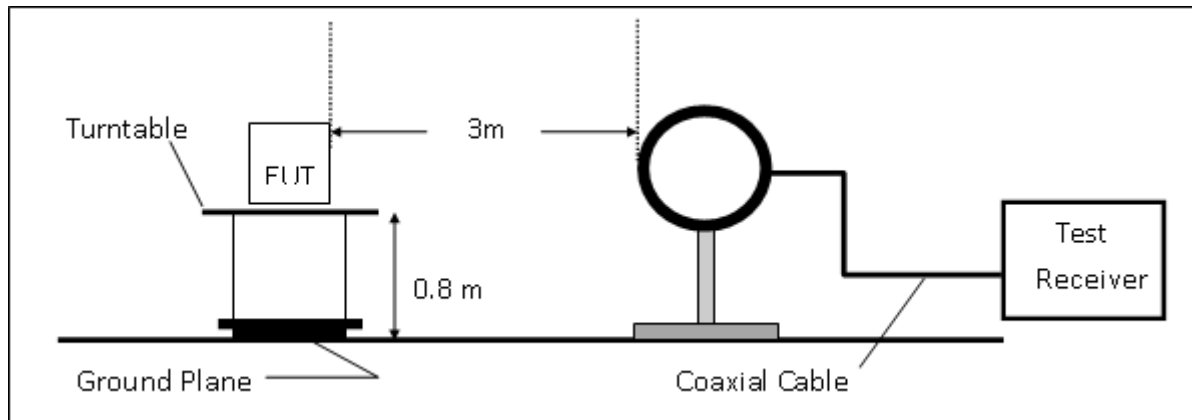
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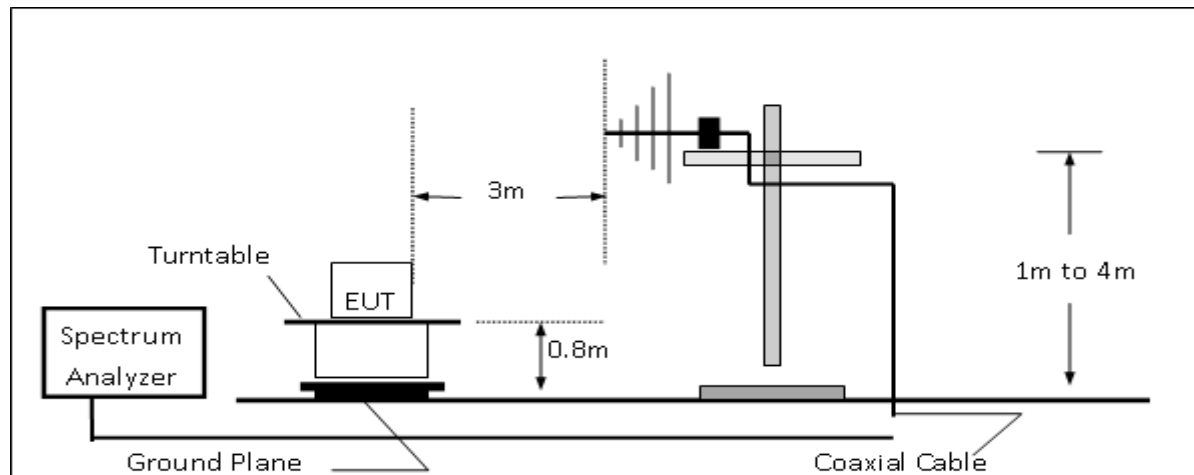
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11.3 Test SET-UP

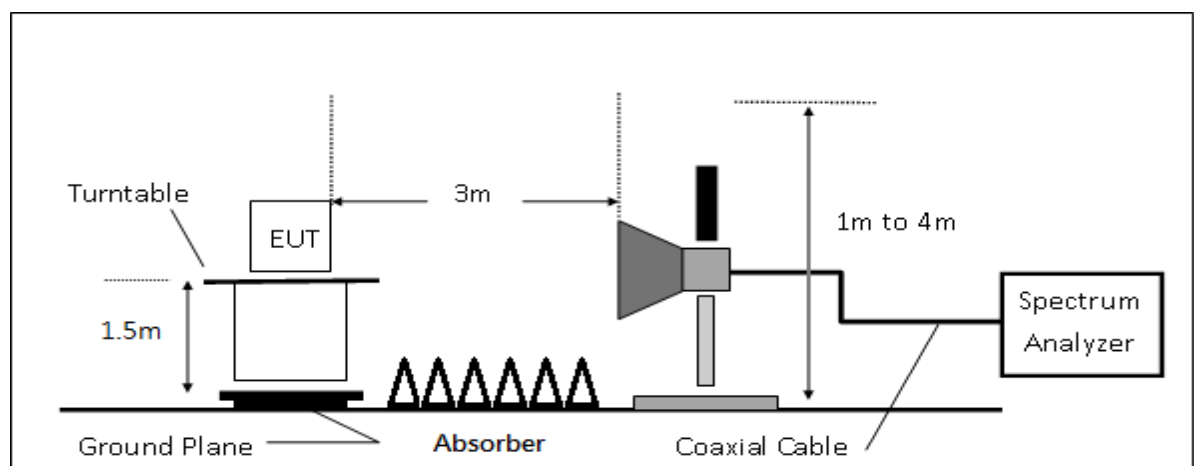
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Refer to attach tabular data sheets.

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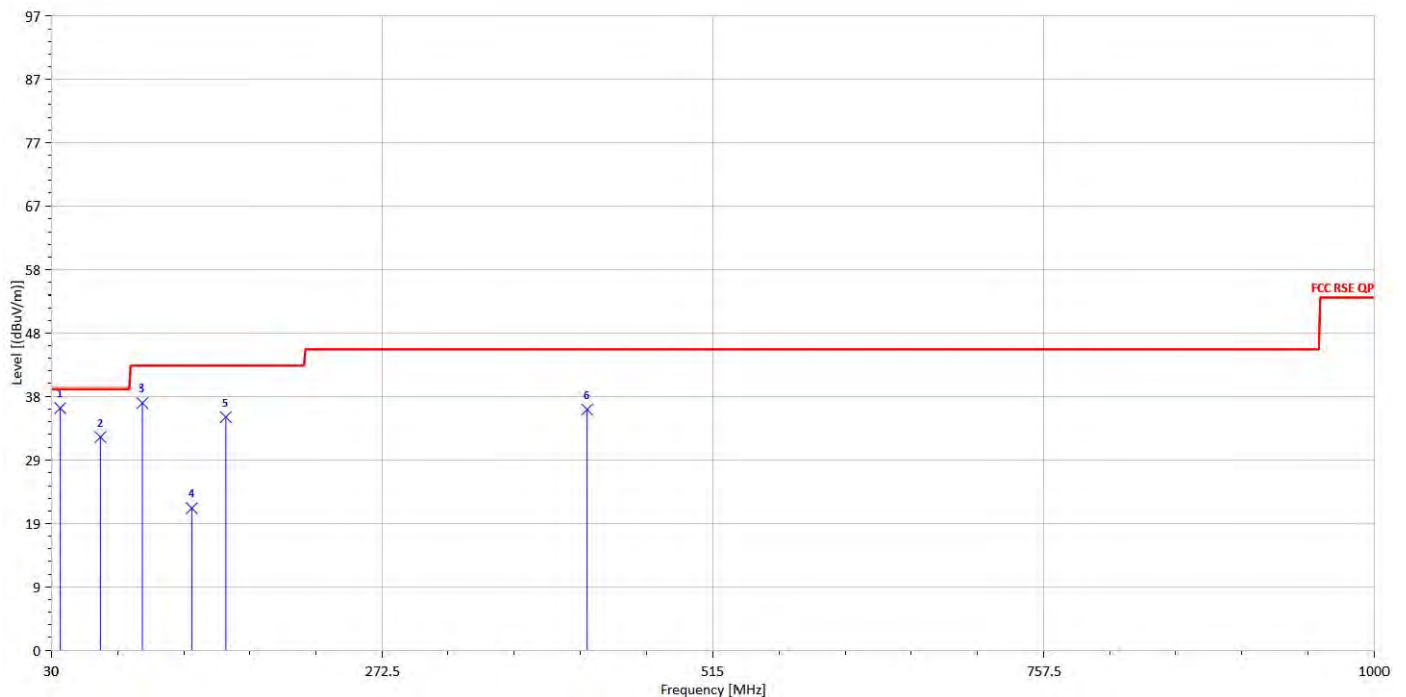
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 36.79 | S | Peak | 48.02 | -10.93 | 37.08 | 40 | -2.92 |
| 65.89 | S | Peak | 54.89 | -22.29 | 32.60 | 40 | -7.40 |
| 96.93 | S | Peak | 56.12 | -18.27 | 37.86 | 43.5 | -5.64 |
| 132.82 | S | Peak | 37.52 | -15.76 | 21.76 | 43.5 | -21.74 |
| 158.04 | S | Peak | 53.08 | -17.40 | 35.68 | 43.5 | -7.82 |
| 422.85 | S | Peak | 46.21 | -9.36 | 36.86 | 46 | -9.14 |

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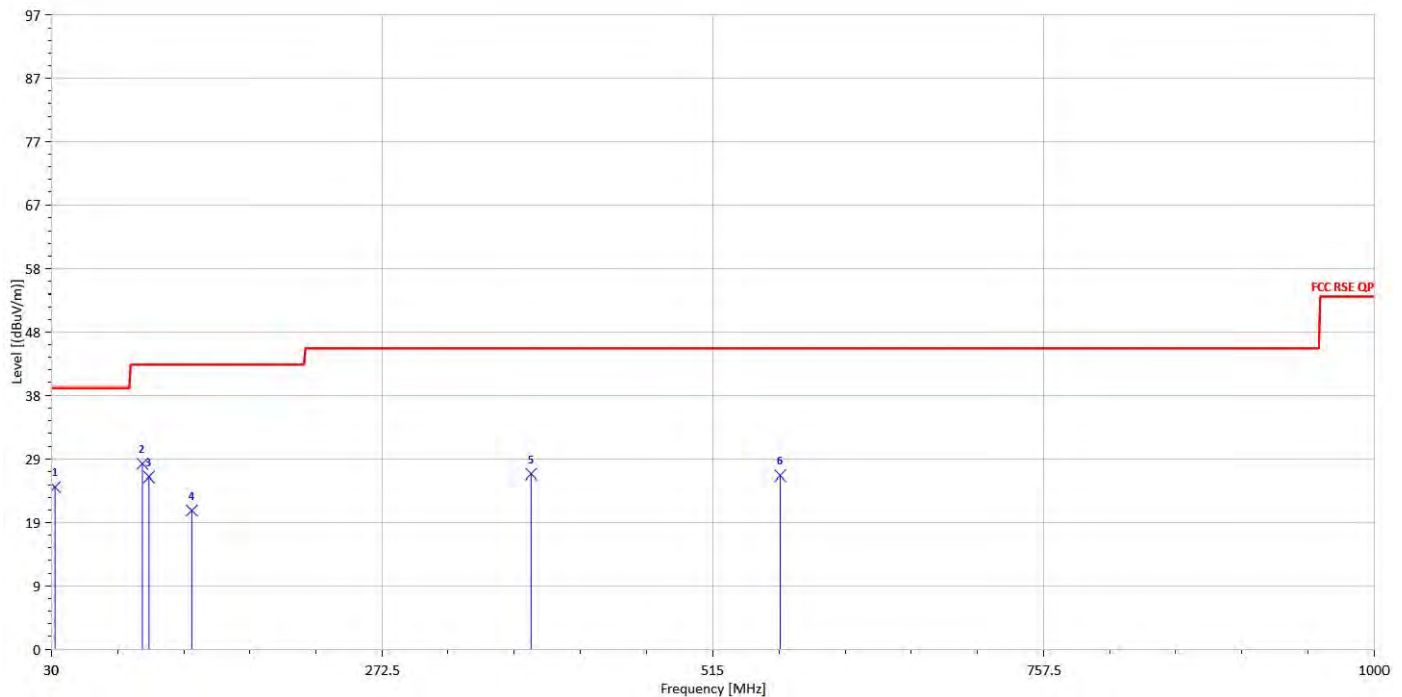
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 32.91 | S | Peak | 33.62 | -8.75 | 24.87 | 40 | -15.13 |
| 96.93 | S | Peak | 46.59 | -18.27 | 28.32 | 43.5 | -15.18 |
| 101.78 | S | Peak | 43.88 | -17.52 | 26.36 | 43.5 | -17.14 |
| 132.82 | S | Peak | 37.02 | -15.76 | 21.26 | 43.5 | -22.24 |
| 382.11 | S | Peak | 37.11 | -10.33 | 26.78 | 46 | -19.22 |
| 564.47 | S | Peak | 33.05 | -6.50 | 26.55 | 46 | -19.45 |

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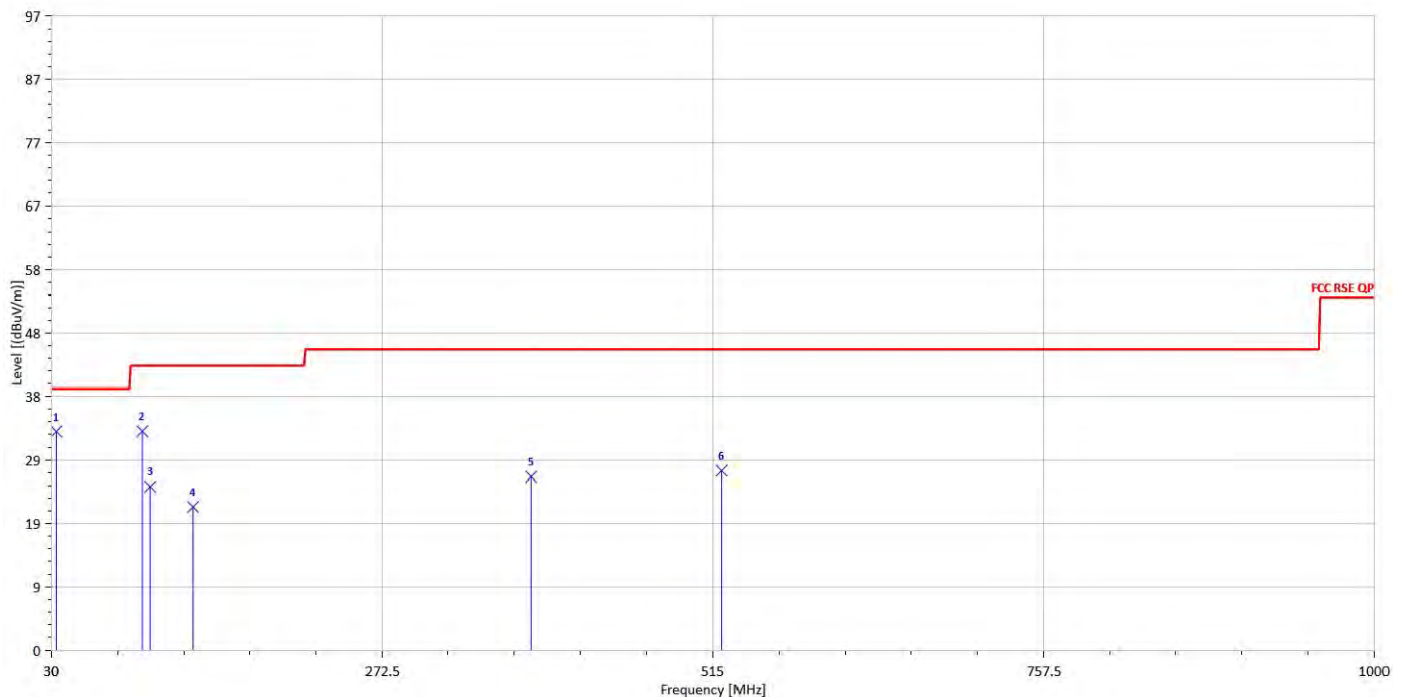
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802.11a 5250~5350 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5300 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 33.88 | S | Peak | 42.73 | -9.27 | 33.46 | 40 | -6.54 |
| 96.93 | S | Peak | 51.77 | -18.27 | 33.50 | 43.5 | -10.00 |
| 102.75 | S | Peak | 42.45 | -17.40 | 25.05 | 43.5 | -18.45 |
| 133.79 | S | Peak | 37.77 | -15.82 | 21.95 | 43.5 | -21.55 |
| 382.11 | S | Peak | 36.87 | -10.33 | 26.54 | 46 | -19.46 |
| 521.79 | S | Peak | 34.70 | -7.26 | 27.44 | 46 | -18.56 |

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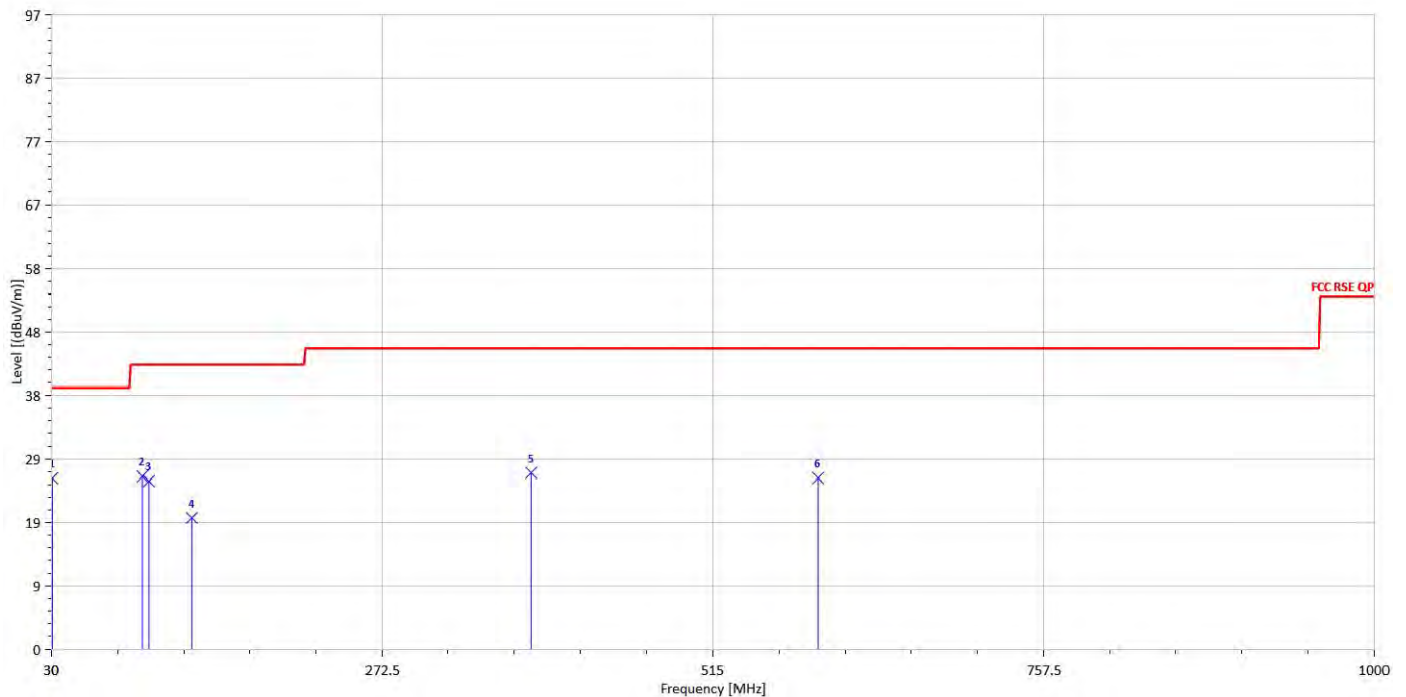
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 33.87 | -7.70 | 26.16 | 40 | -13.84 |
| 96.93 | S | Peak | 44.70 | -18.27 | 26.43 | 43.5 | -17.07 |
| 101.78 | S | Peak | 43.25 | -17.52 | 25.73 | 43.5 | -17.77 |
| 132.82 | S | Peak | 35.87 | -15.76 | 20.11 | 43.5 | -23.39 |
| 382.11 | S | Peak | 37.29 | -10.33 | 26.96 | 46 | -19.04 |
| 592.60 | S | Peak | 32.28 | -6.08 | 26.20 | 46 | -19.80 |

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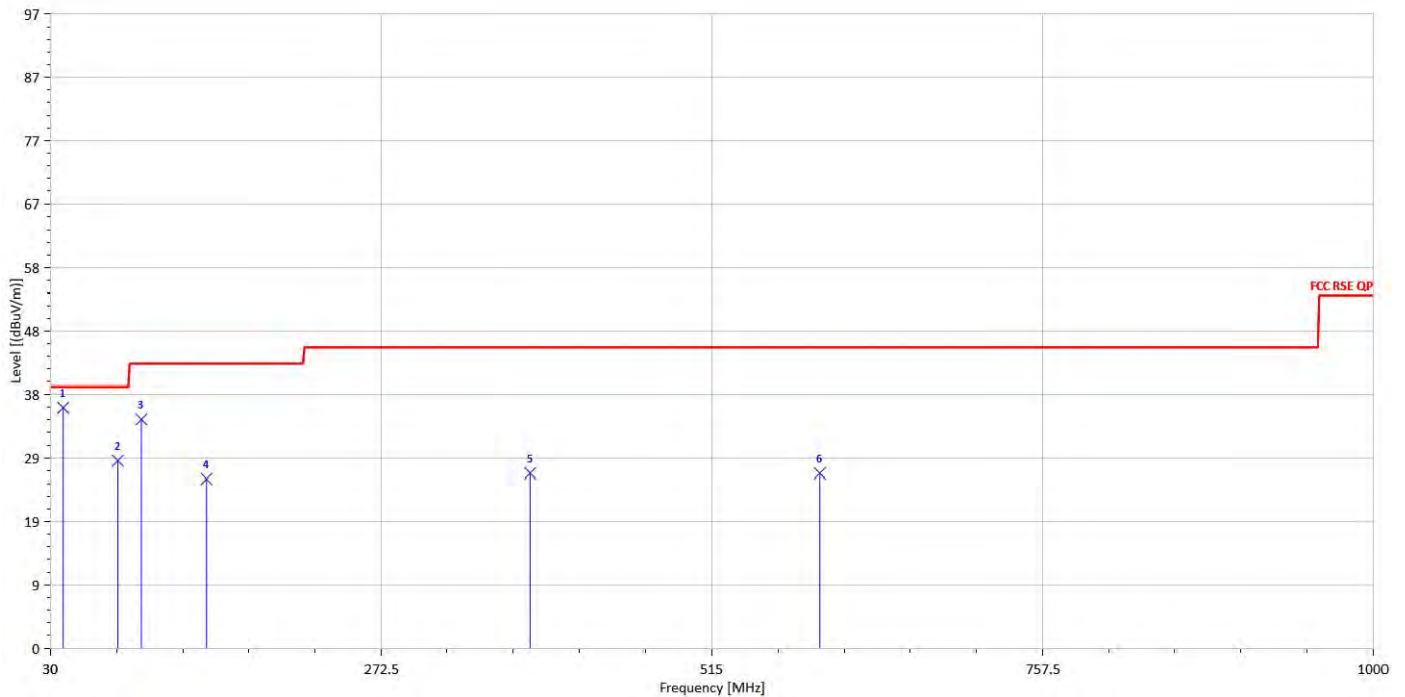
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802.11a, 5470~5725 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5580 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 39.70 | S | Peak | 49.45 | -12.63 | 36.82 | 40 | -3.18 |
| 79.47 | S | Peak | 49.67 | -21.01 | 28.66 | 40 | -11.34 |
| 96.93 | S | Peak | 53.28 | -18.27 | 35.01 | 43.5 | -8.49 |
| 144.46 | S | Peak | 42.28 | -16.39 | 25.89 | 43.5 | -17.61 |
| 382.11 | S | Peak | 37.08 | -10.33 | 26.75 | 46 | -19.25 |
| 594.54 | S | Peak | 32.50 | -5.76 | 26.74 | 46 | -19.26 |

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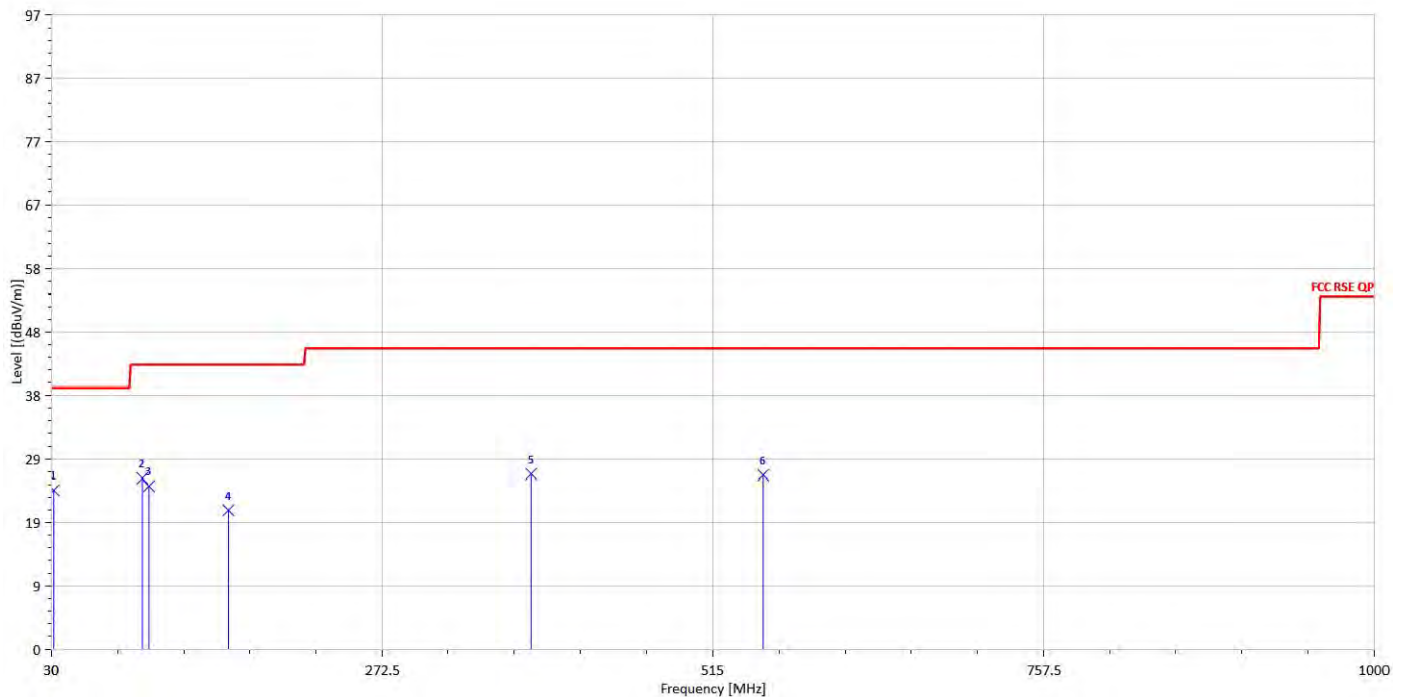
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | S | Peak | 32.57 | -8.22 | 24.35 | 40 | -15.65 |
| 96.93 | S | Peak | 44.43 | -18.27 | 26.16 | 43.5 | -17.34 |
| 101.78 | S | Peak | 42.51 | -17.52 | 24.98 | 43.5 | -18.52 |
| 159.98 | S | Peak | 38.82 | -17.52 | 21.29 | 43.5 | -22.21 |
| 382.11 | S | Peak | 37.13 | -10.33 | 26.80 | 46 | -19.20 |
| 551.86 | S | Peak | 33.30 | -6.66 | 26.64 | 46 | -19.36 |

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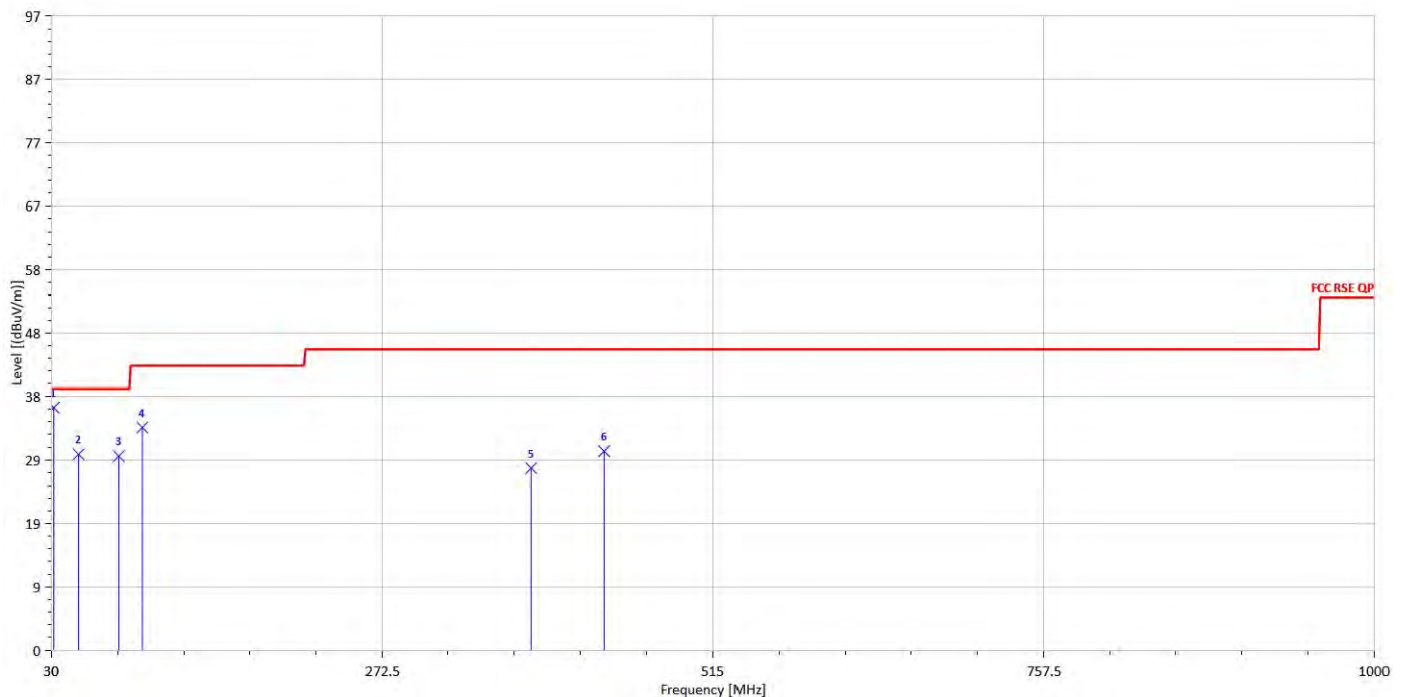
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802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | S | Peak | 45.36 | -8.22 | 37.14 | 40 | -2.86 |
| 50.37 | S | Peak | 49.49 | -19.55 | 29.94 | 40 | -10.06 |
| 79.47 | S | Peak | 50.67 | -21.01 | 29.66 | 40 | -10.34 |
| 96.93 | S | Peak | 52.35 | -18.27 | 34.08 | 43.5 | -9.42 |
| 382.11 | S | Peak | 38.14 | -10.33 | 27.81 | 46 | -18.19 |
| 435.46 | S | Peak | 39.62 | -9.20 | 30.42 | 46 | -15.58 |

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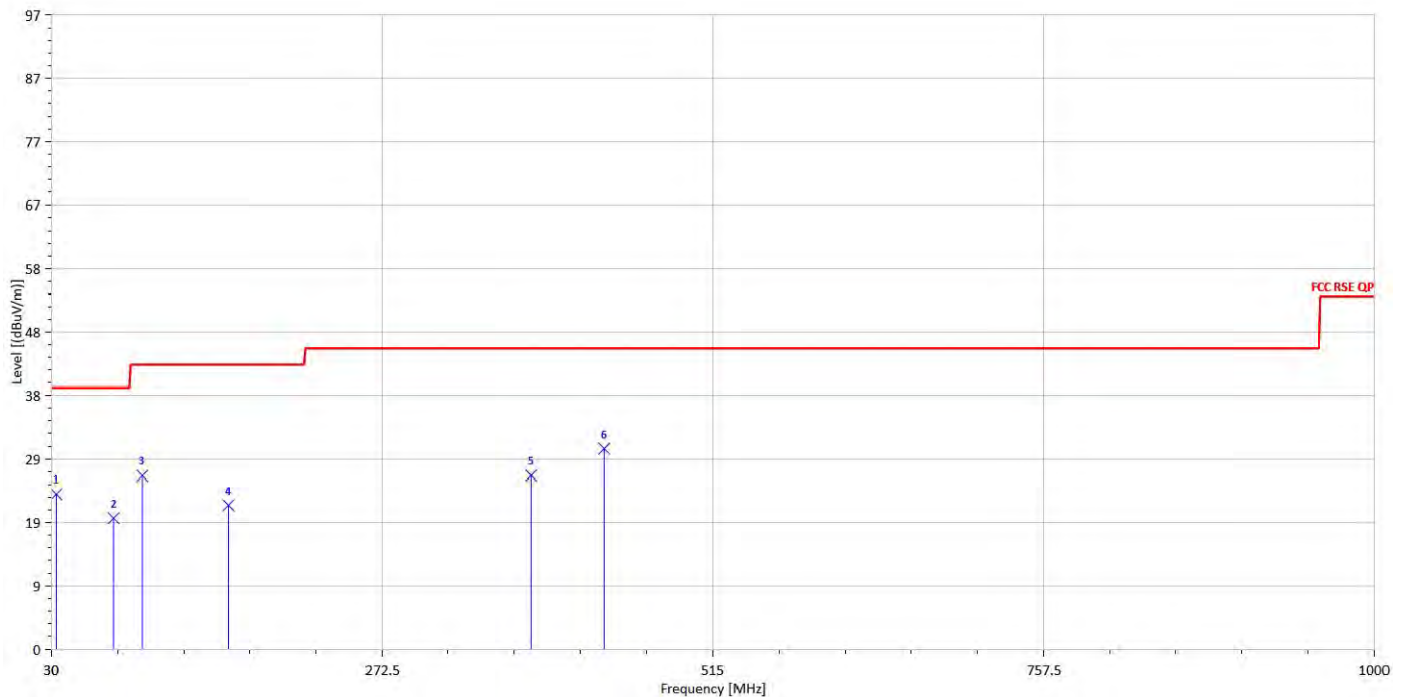
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 33.88 | S | Peak | 33.03 | -9.27 | 23.76 | 40 | -16.24 |
| 75.59 | S | Peak | 41.44 | -21.38 | 20.06 | 40 | -19.94 |
| 96.93 | S | Peak | 44.81 | -18.27 | 26.54 | 43.5 | -16.96 |
| 159.98 | S | Peak | 39.58 | -17.52 | 22.05 | 43.5 | -21.45 |
| 382.11 | S | Peak | 36.91 | -10.33 | 26.58 | 46 | -19.42 |
| 435.46 | S | Peak | 39.87 | -9.20 | 30.67 | 46 | -15.33 |

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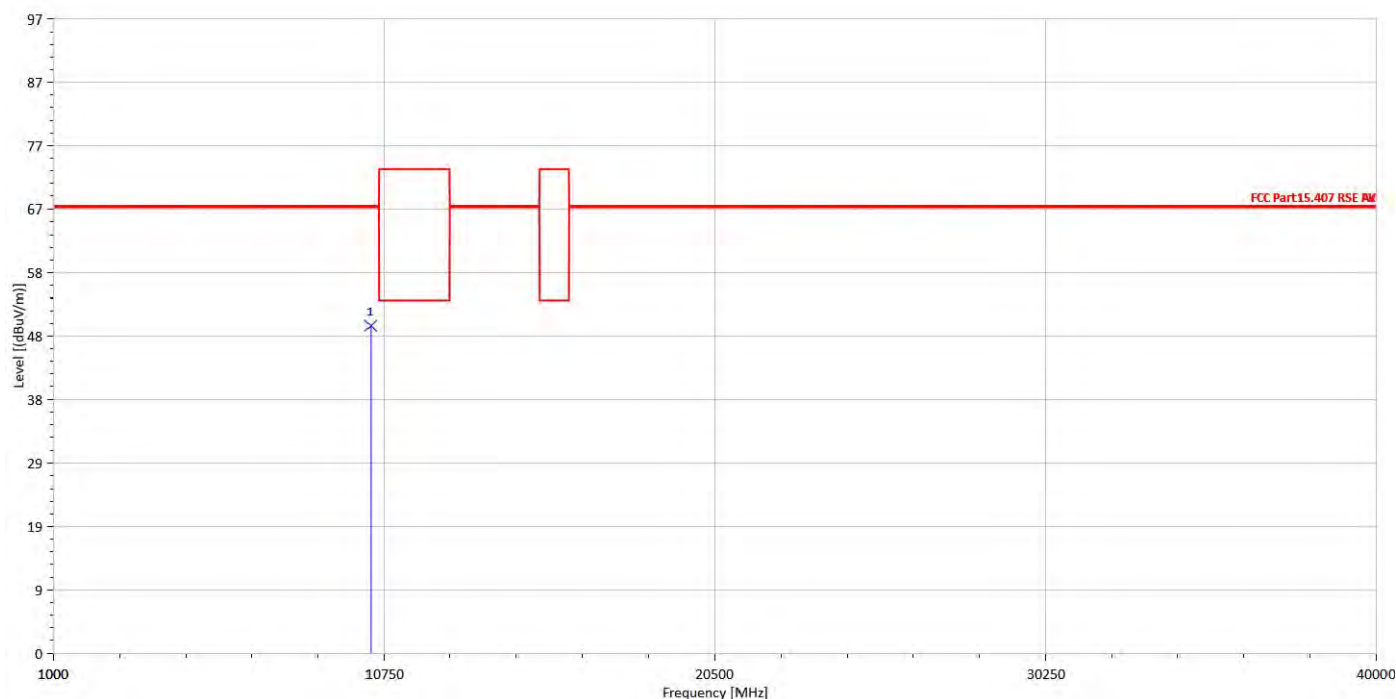
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10360.00 | H | Peak | 29.93 | 20.18 | 50.11 | 68.3 | -18.19 |

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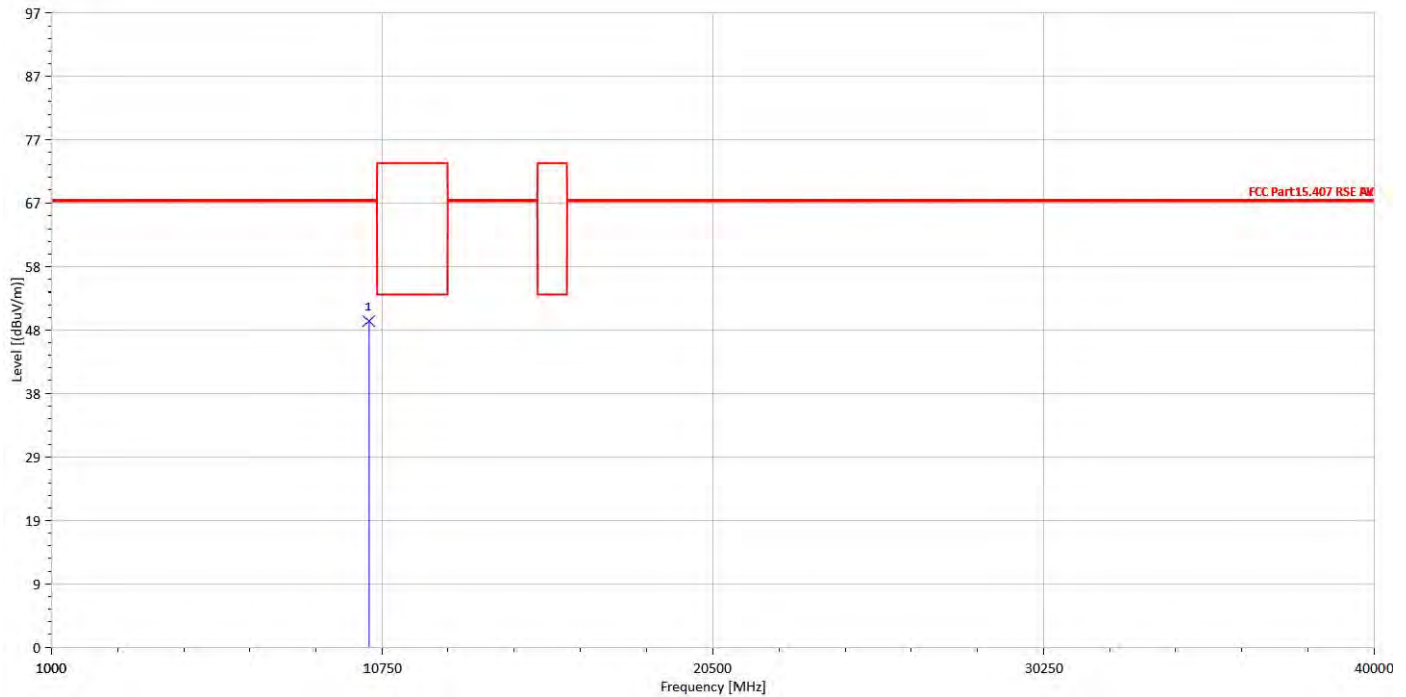
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10360.00 | H | Peak | 29.73 | 20.18 | 49.90 | 68.3 | -18.40 |

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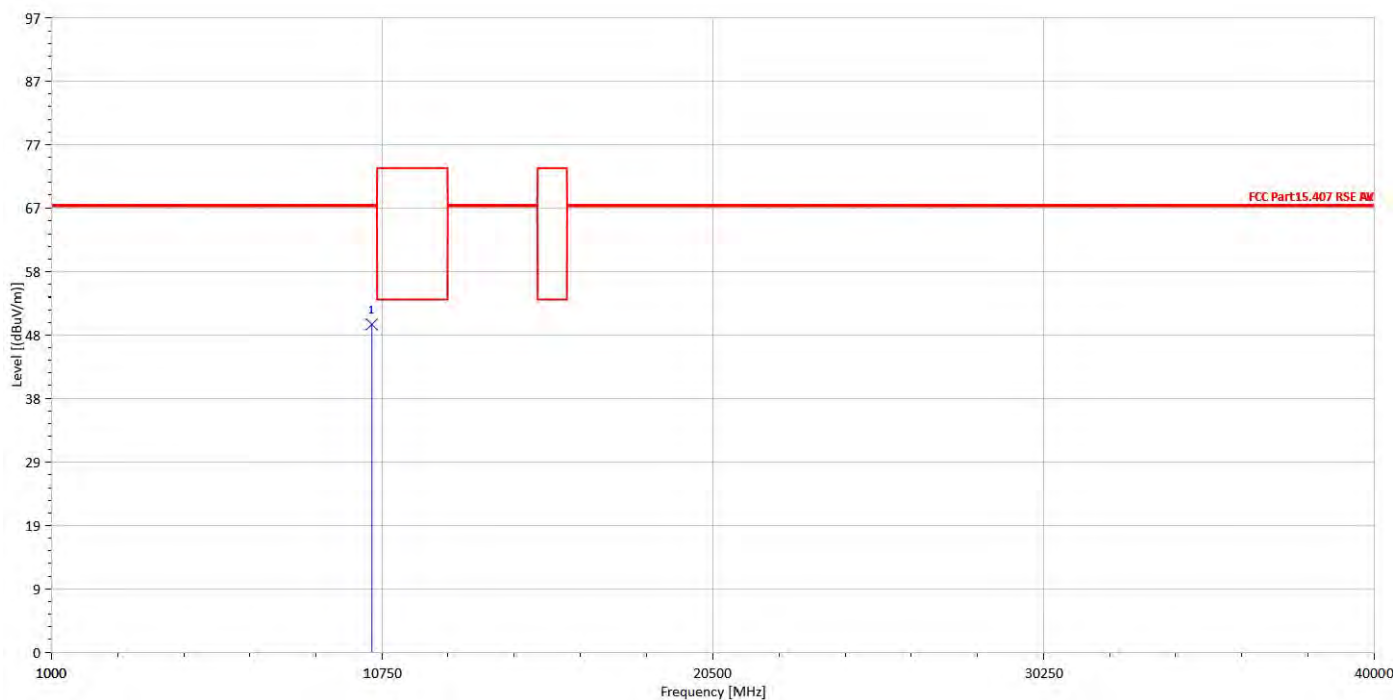
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10440.00 | H | Peak | 29.87 | 20.29 | 50.16 | 68.3 | -18.14 |

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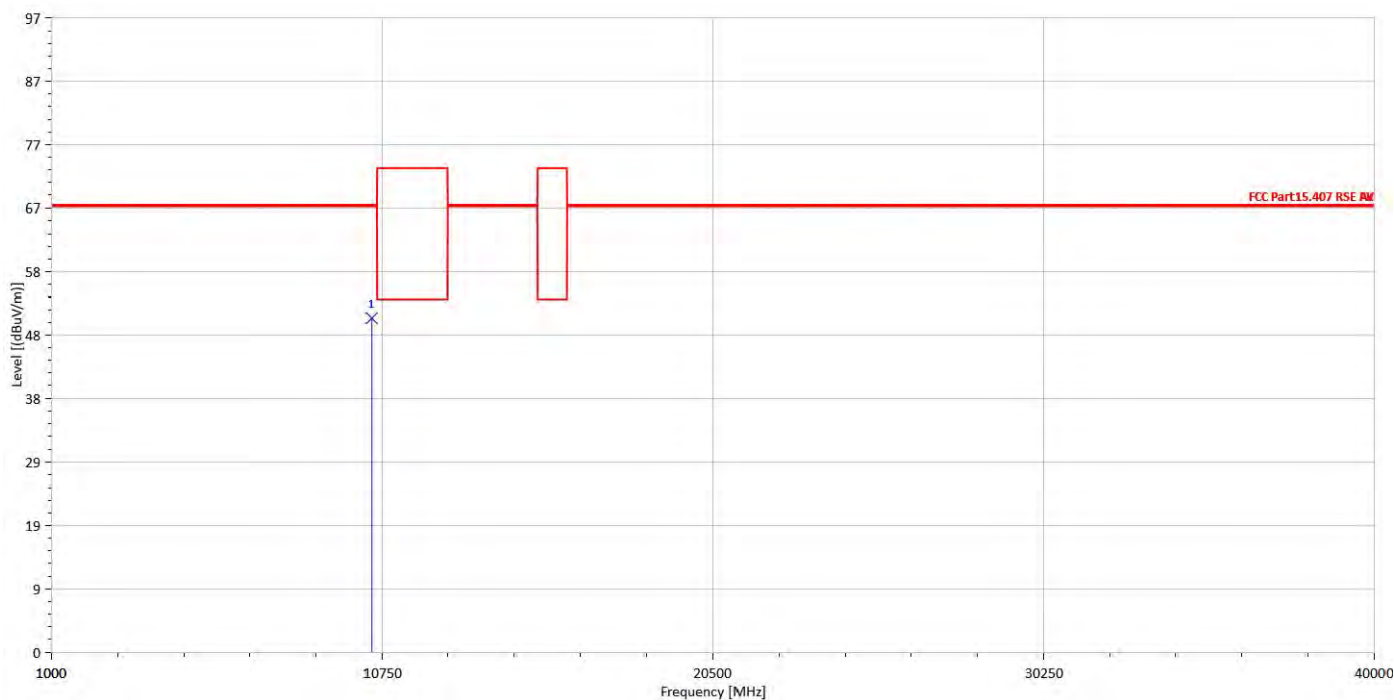
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10440.00 | H | Peak | 30.84 | 20.29 | 51.13 | 68.3 | -17.17 |

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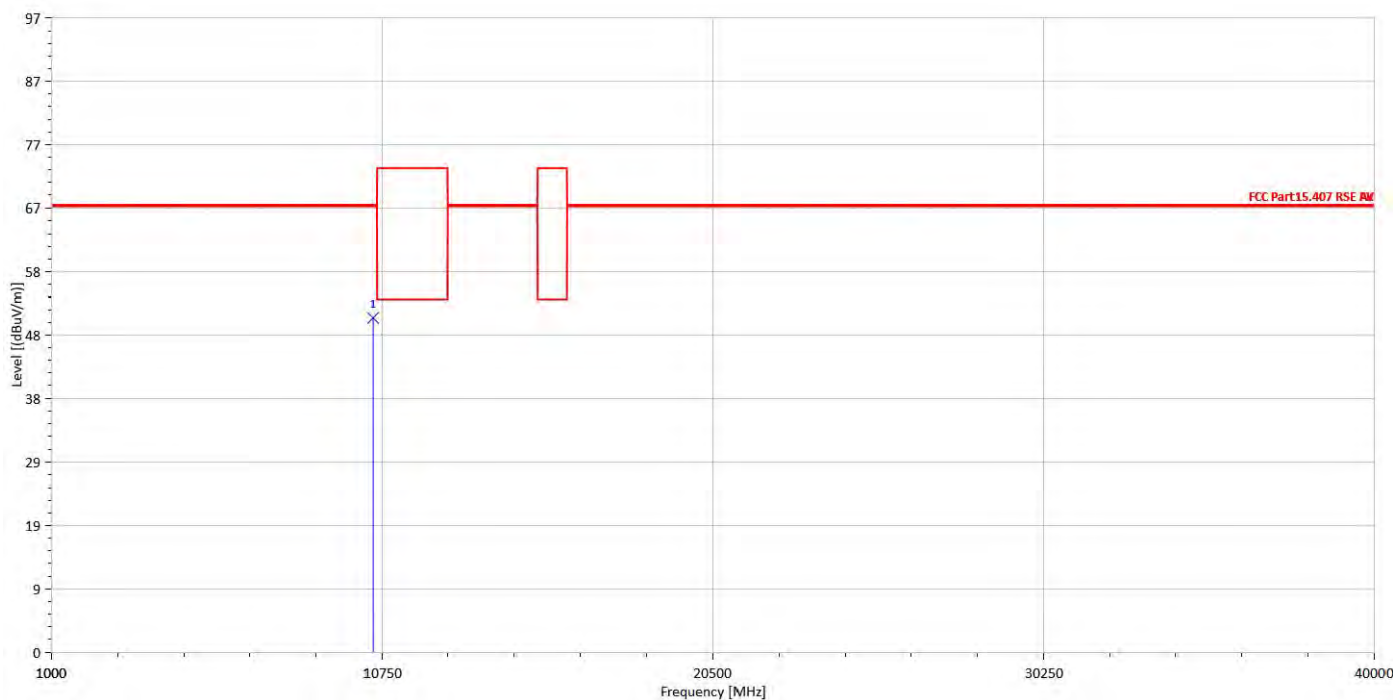
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10480.00 | H | Peak | 30.49 | 20.68 | 51.17 | 68.3 | -17.13 |

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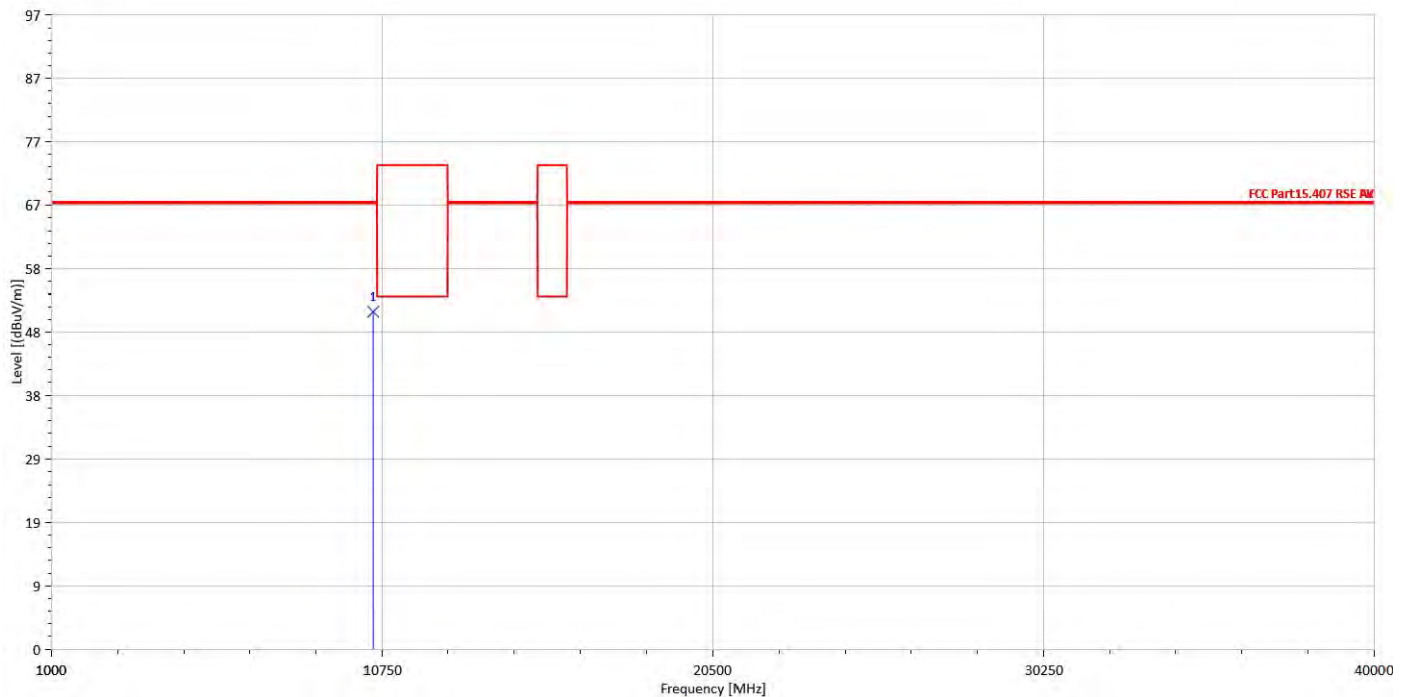
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10480.00 | H | Peak | 30.97 | 20.68 | 51.65 | 68.3 | -16.65 |

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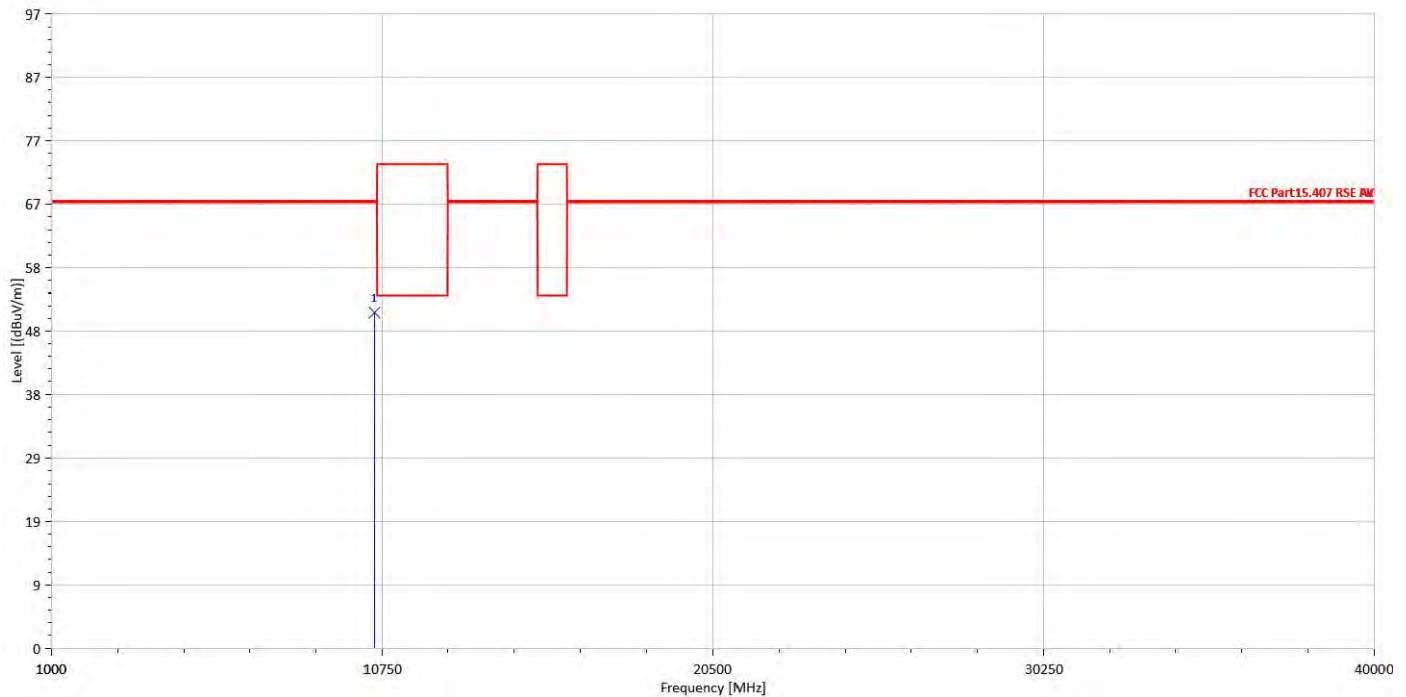
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5260 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10520.00 | H | Peak | 31.27 | 20.10 | 51.37 | 68.3 | -16.93 |

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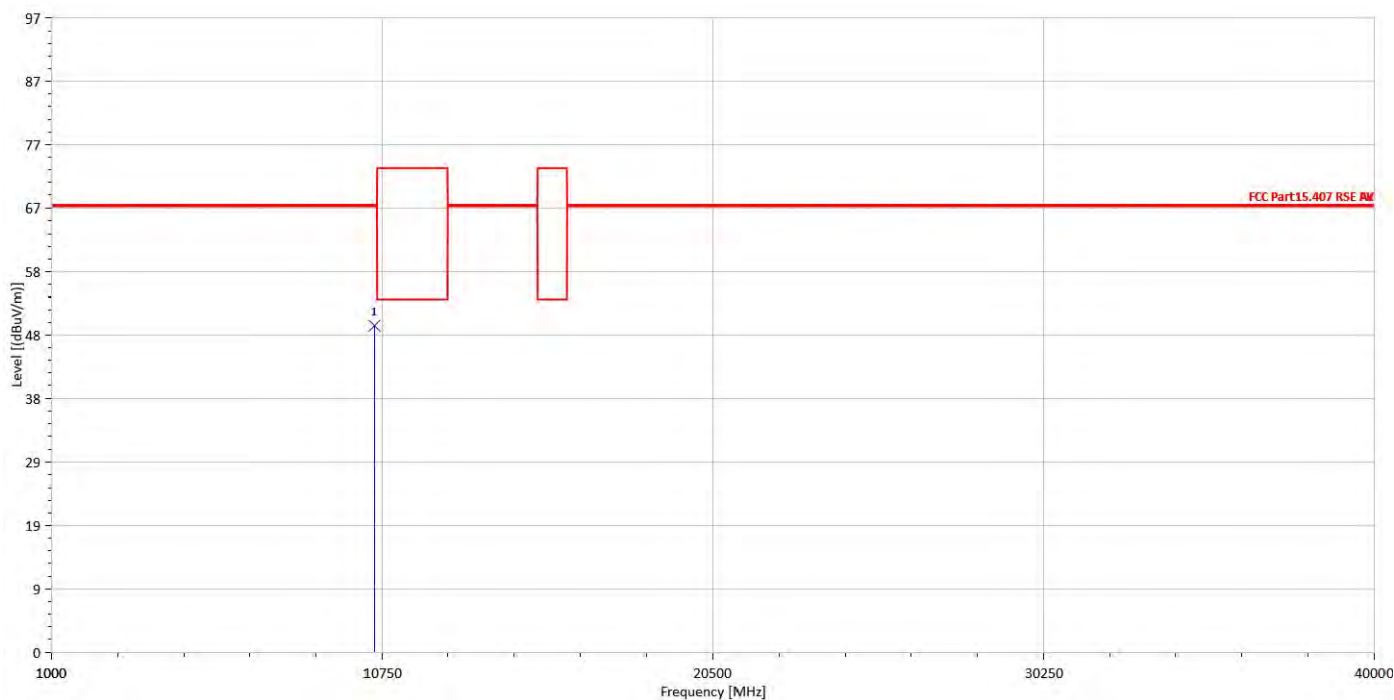
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10520.00 | H | Peak | 29.86 | 20.10 | 49.96 | 68.3 | -18.34 |

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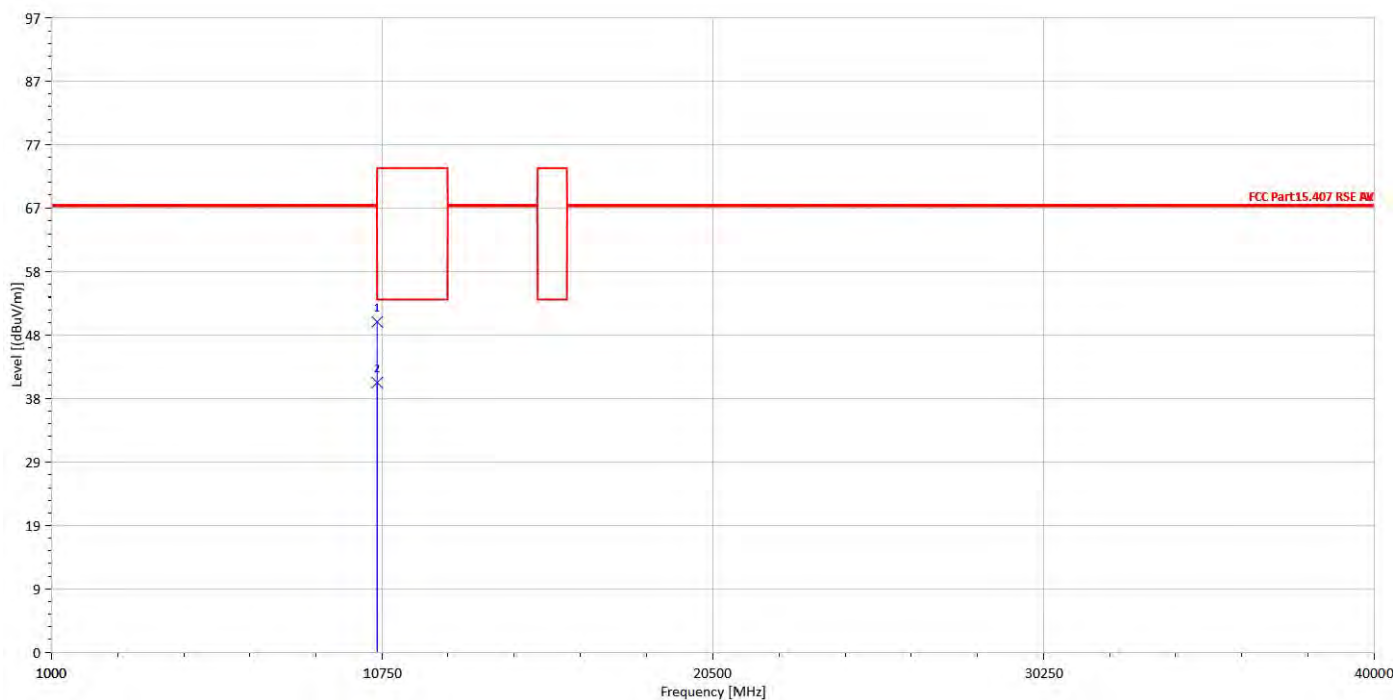
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5300 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10600.00 | H | Peak | 30.39 | 20.17 | 50.56 | 74 | -23.44 |
| 10600.00 | H | Average | 21.02 | 20.17 | 41.19 | 54 | -12.81 |

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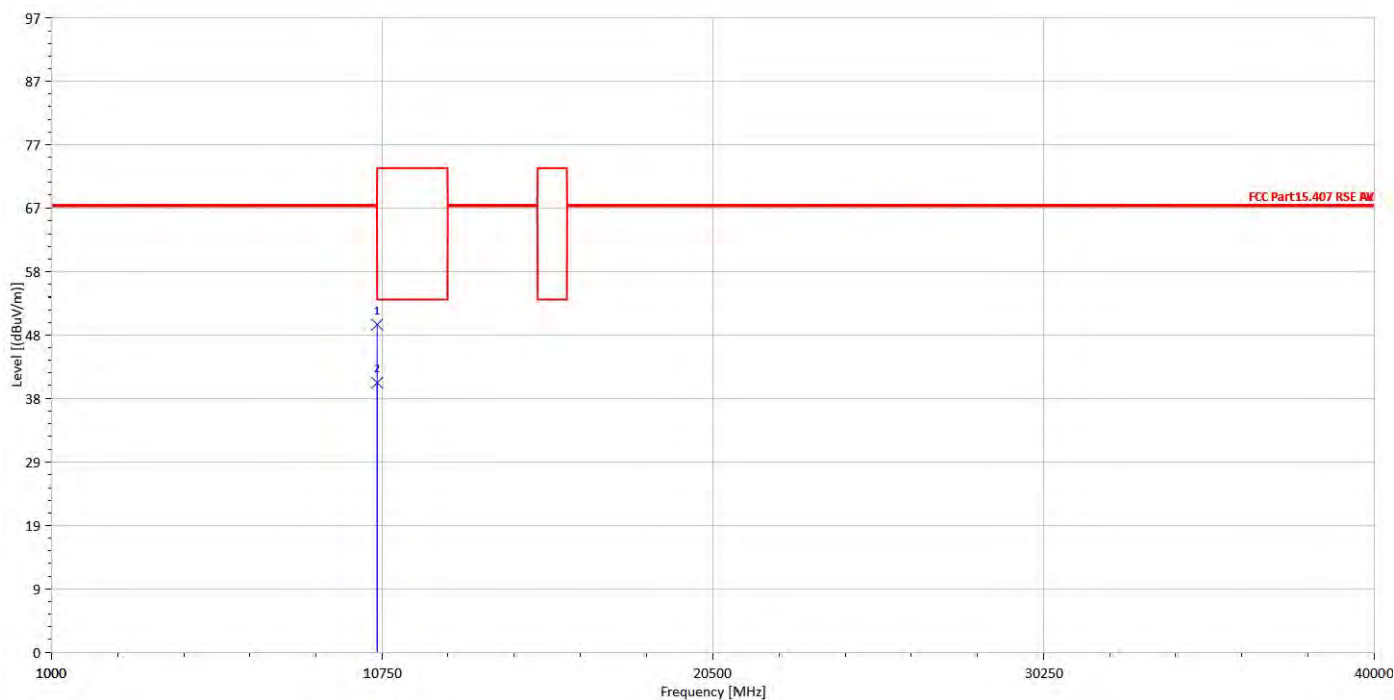
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10600.00 | H | Peak | 29.96 | 20.17 | 50.13 | 74 | -23.87 |
| 10600.00 | H | Average | 20.98 | 20.17 | 41.15 | 54 | -12.85 |

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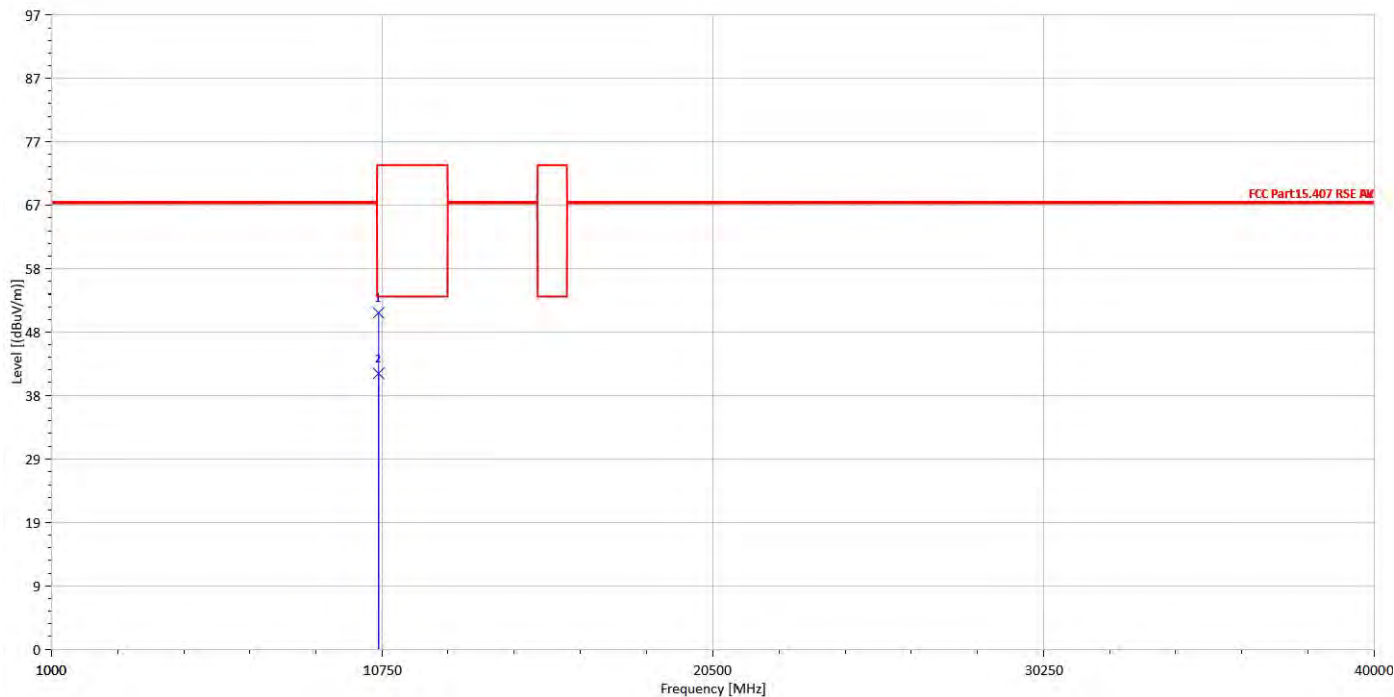
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10640.00 | H | Peak | 31.15 | 20.34 | 51.49 | 74 | -22.51 |
| 10640.00 | H | Average | 21.78 | 20.34 | 42.12 | 54 | -11.88 |

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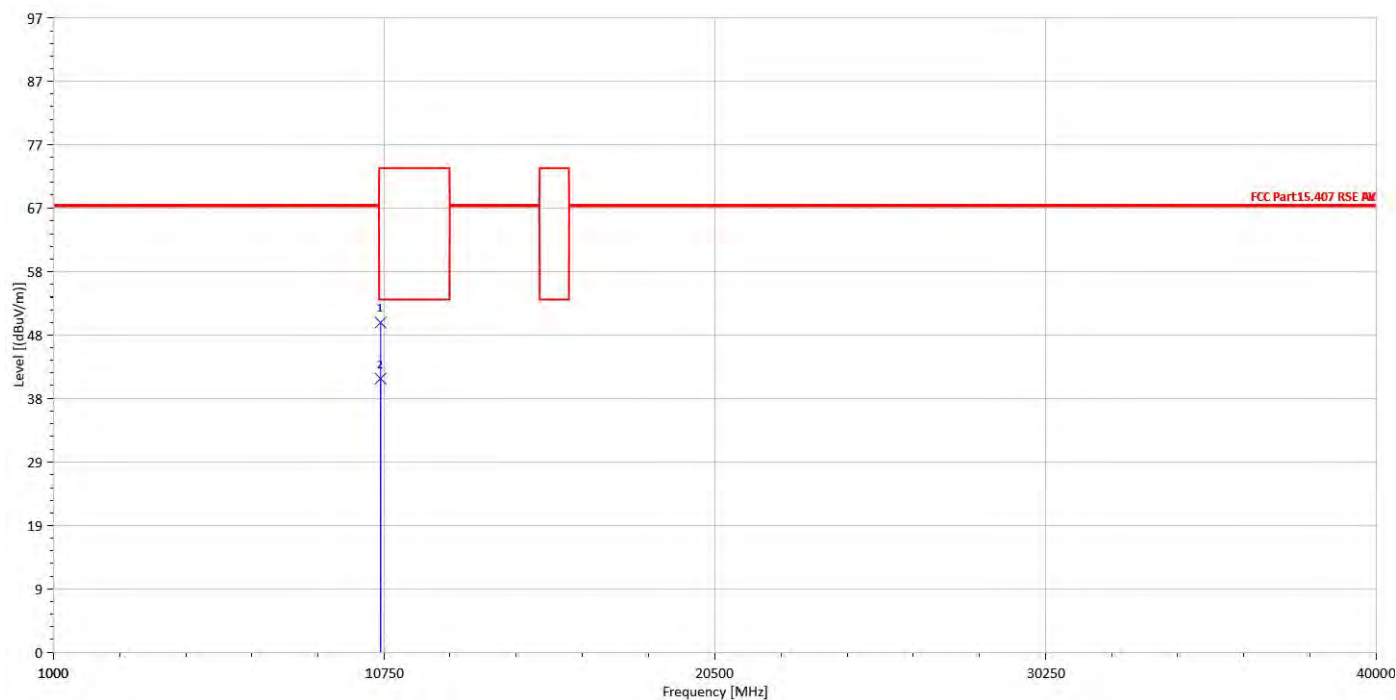
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5320 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10640.00 | H | Peak | 30.10 | 20.34 | 50.45 | 74 | -23.55 |
| 10640.00 | H | Average | 21.45 | 20.34 | 41.79 | 54 | -12.21 |

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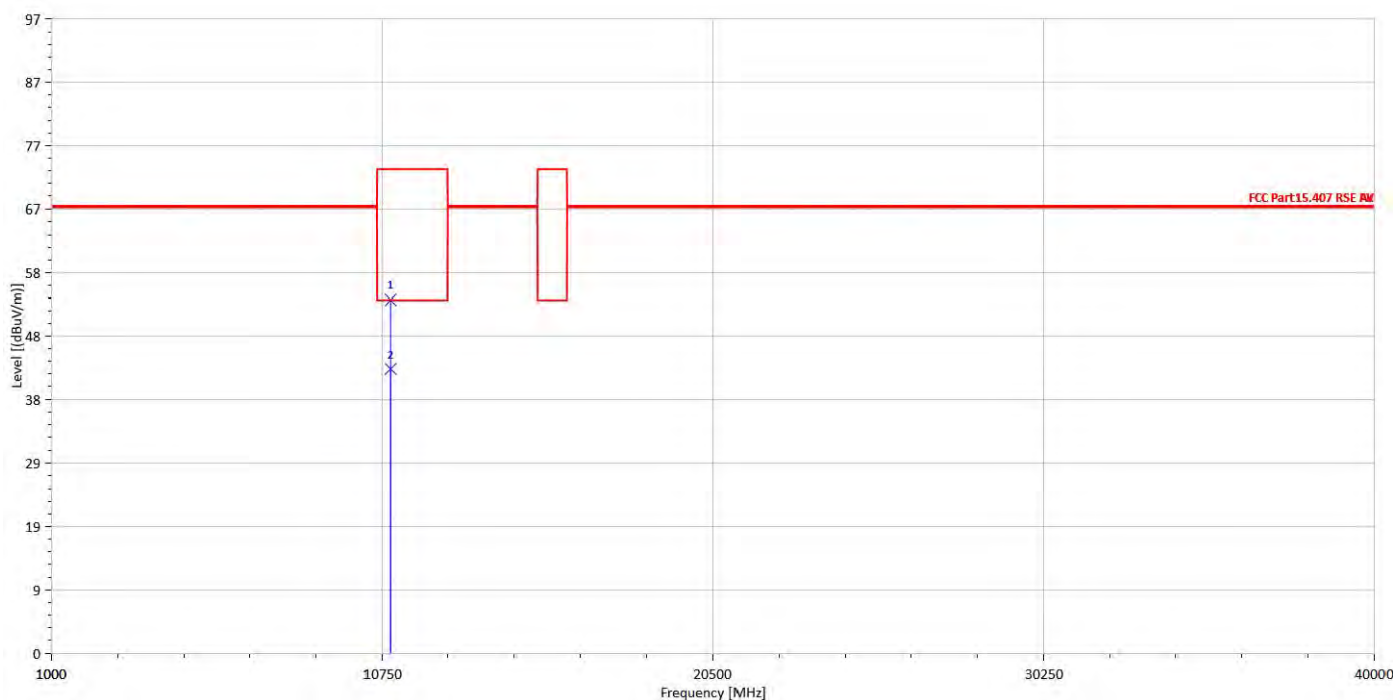
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11000.00 | H | Peak | 31.92 | 22.11 | 54.03 | 74 | -19.97 |
| 11000.00 | H | Average | 21.33 | 22.11 | 43.44 | 54 | -10.56 |

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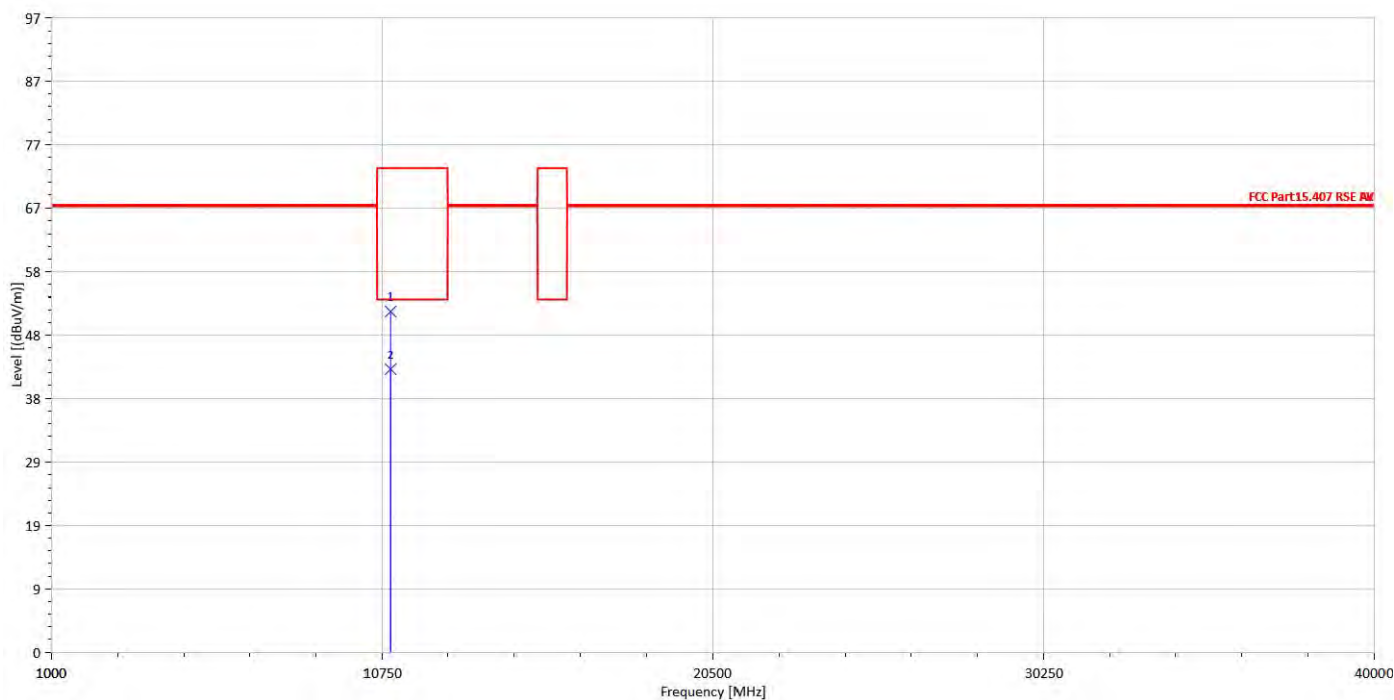
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11000.00 | H | Peak | 30.04 | 22.11 | 52.15 | 74 | -21.85 |
| 11000.00 | H | Average | 21.15 | 22.11 | 43.26 | 54 | -10.74 |

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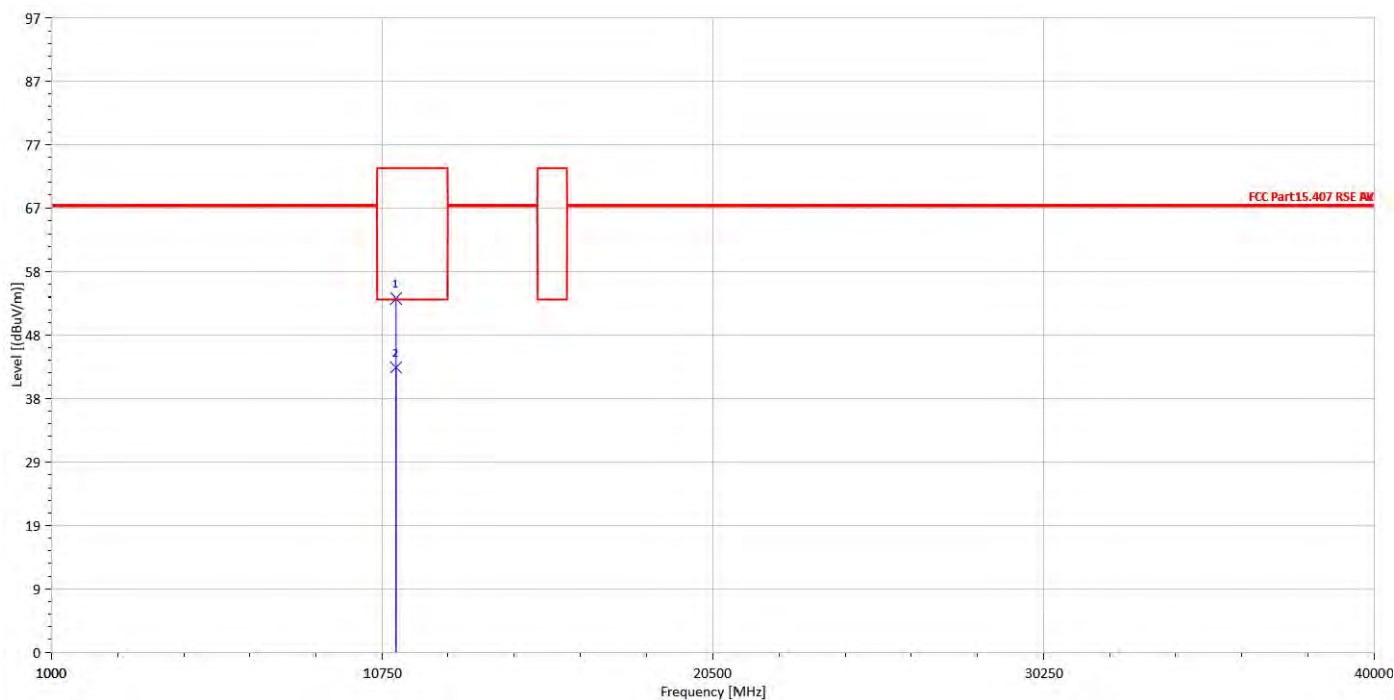
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Operation Mode : 802.11a Test Date : 2016/8/14
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 11160.00 | H | Peak | 32.06 | 22.04 | 54.09 | 74 | -19.91 |
| 11160.00 | H | Average | 21.48 | 22.04 | 43.52 | 54 | -10.48 |

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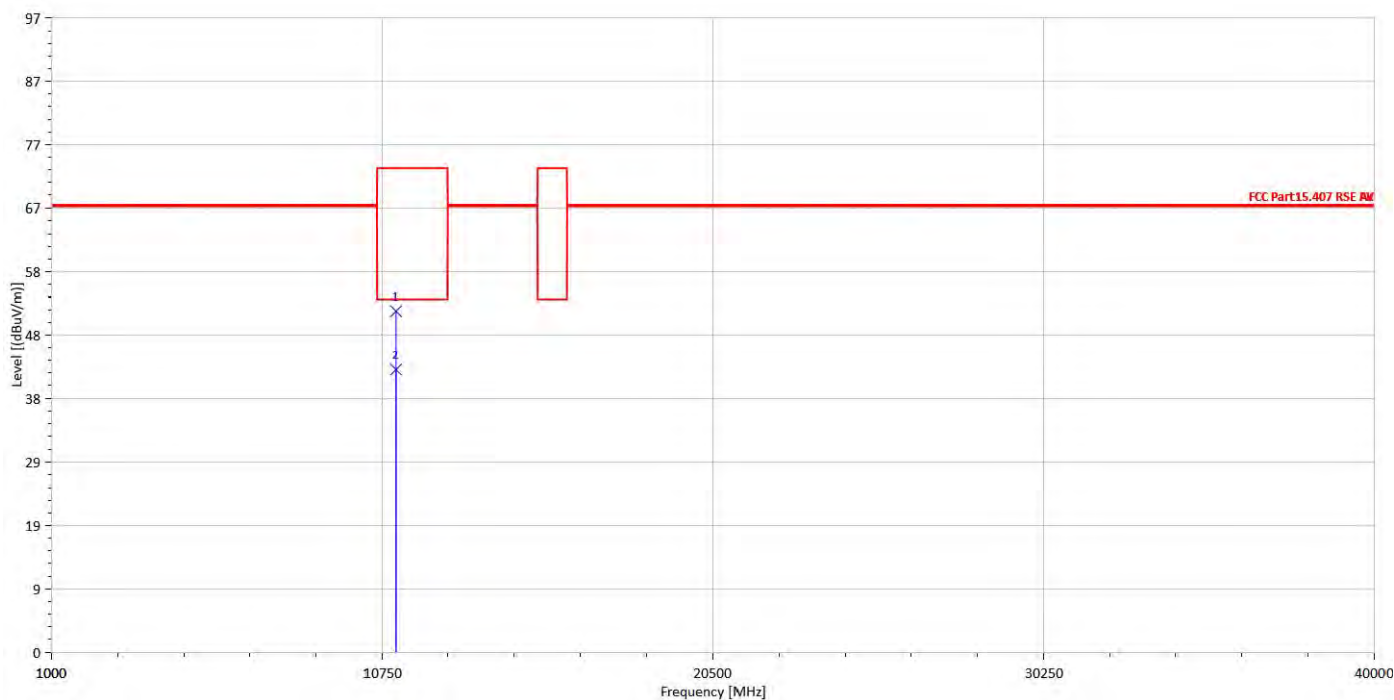
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5580 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 11160.00 | H | Peak | 30.16 | 22.04 | 52.19 | 74 | -21.81 |
| 11160.00 | H | Average | 21.15 | 22.04 | 43.19 | 54 | -10.81 |

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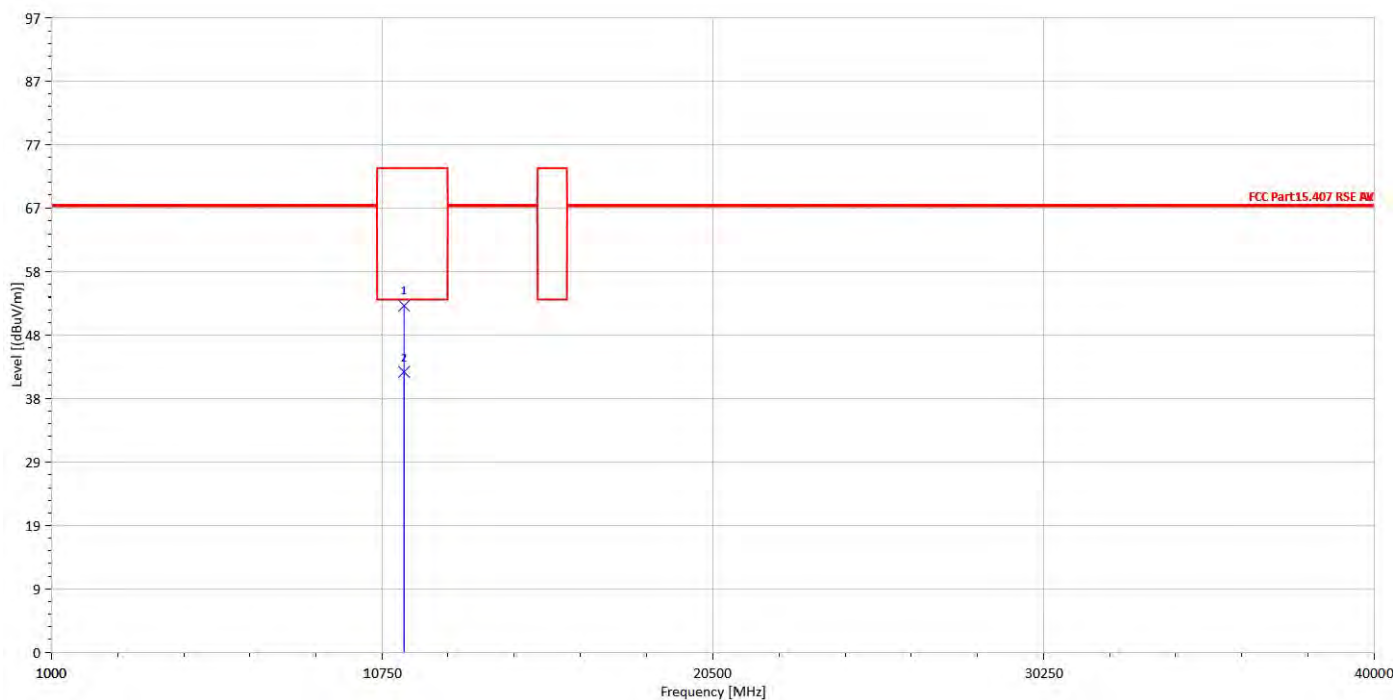
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11400.00 | H | Peak | 31.83 | 21.22 | 53.05 | 74 | -20.95 |
| 11400.00 | H | Average | 21.62 | 21.22 | 42.84 | 54 | -11.16 |

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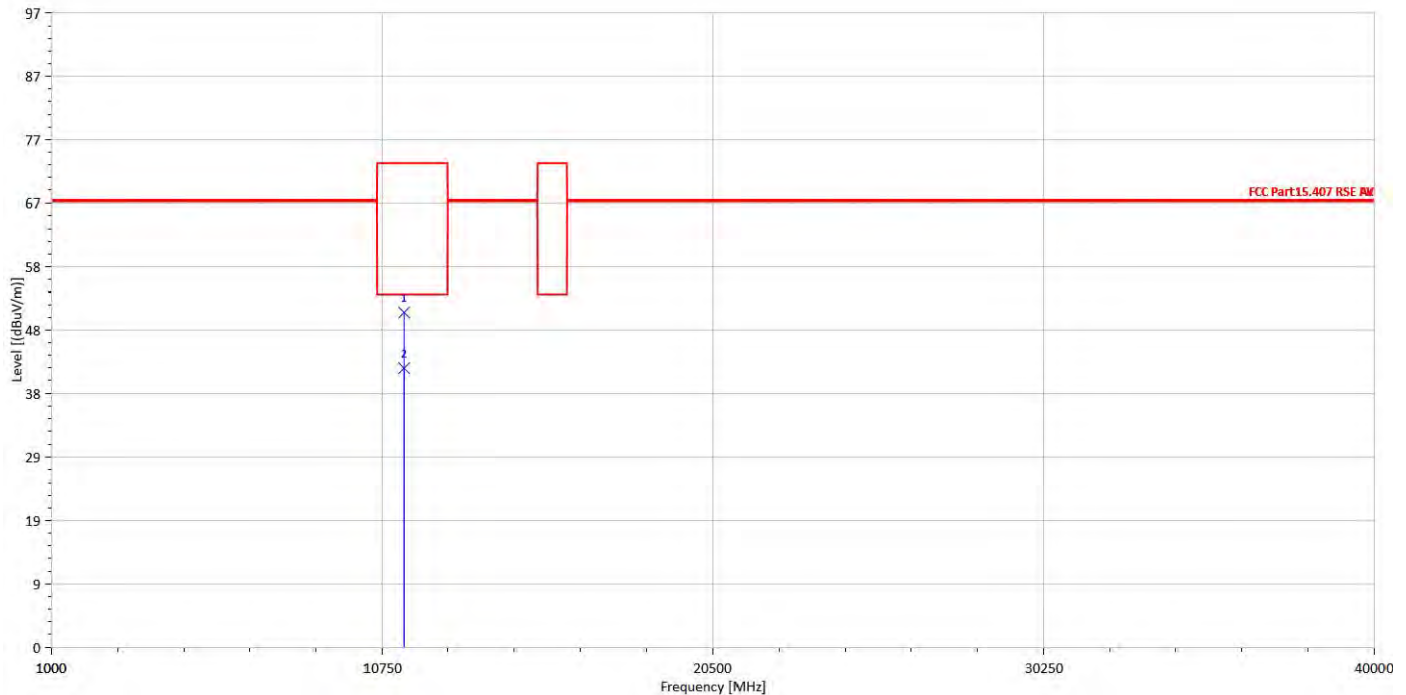
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5700 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11400.00 | H | Peak | 30.01 | 21.22 | 51.23 | 74 | -22.77 |
| 11400.00 | H | Average | 21.41 | 21.22 | 42.63 | 54 | -11.37 |

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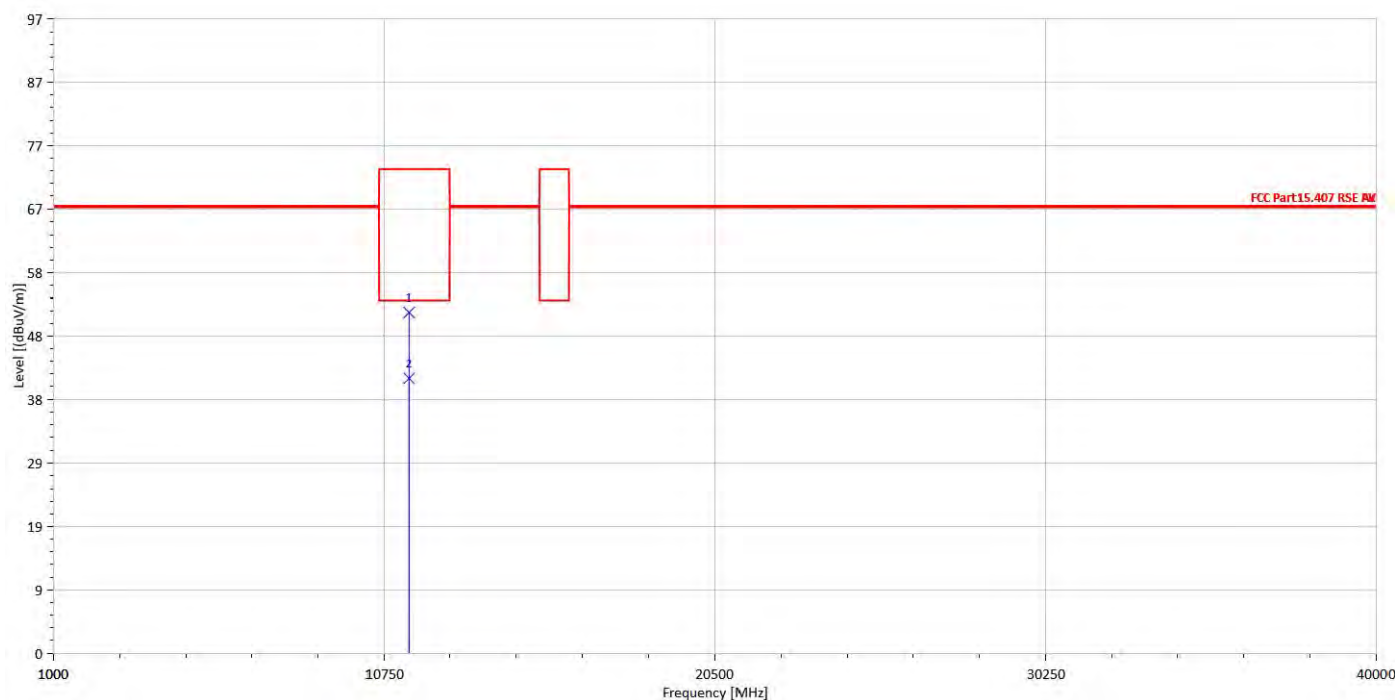
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11490.00 | H | Peak | 31.46 | 20.70 | 52.16 | 74 | -21.84 |
| 11490.00 | H | Average | 21.29 | 20.70 | 41.99 | 54 | -12.01 |

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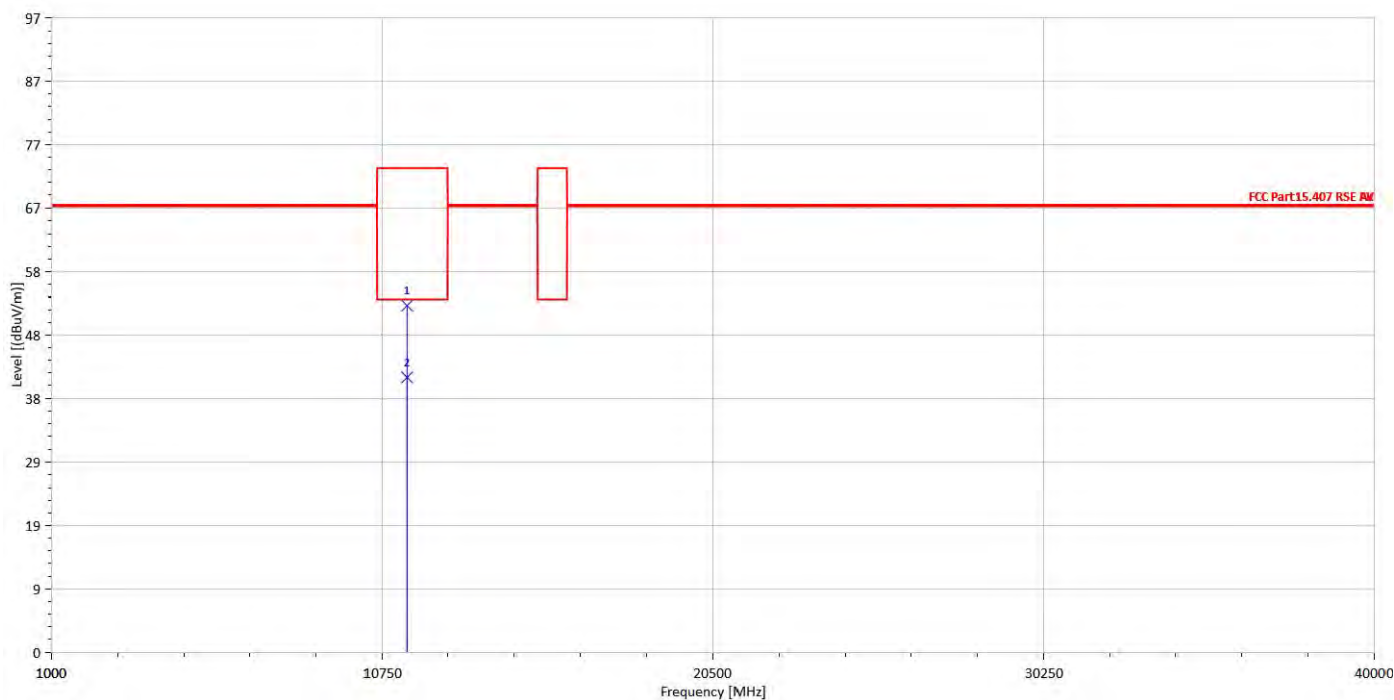
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11490.00 | H | Peak | 32.35 | 20.70 | 53.06 | 74 | -20.94 |
| 11490.00 | H | Average | 21.28 | 20.70 | 41.98 | 54 | -12.02 |

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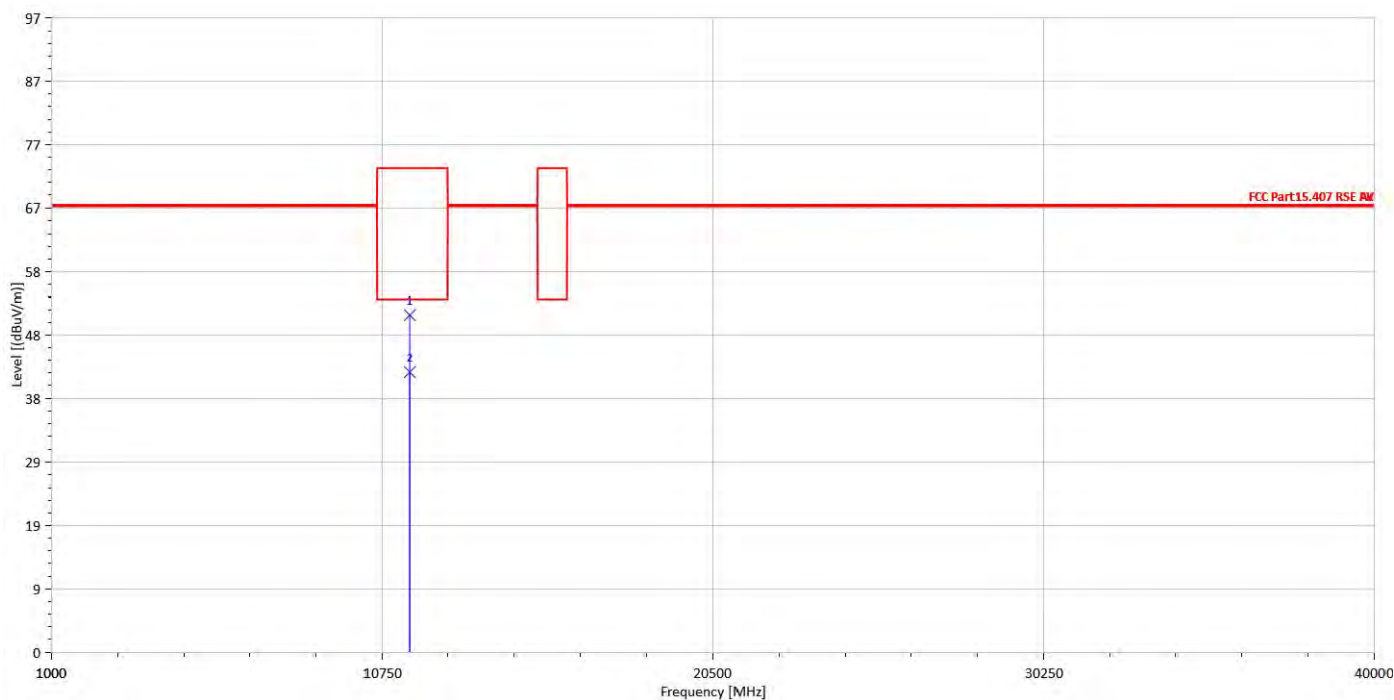
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Operation Mode : 802.11a Test Date : 2016/8/14
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11570.00 | H | Peak | 30.16 | 21.44 | 51.60 | 74 | -22.40 |
| 11570.00 | H | Average | 21.36 | 21.44 | 42.80 | 54 | -11.20 |

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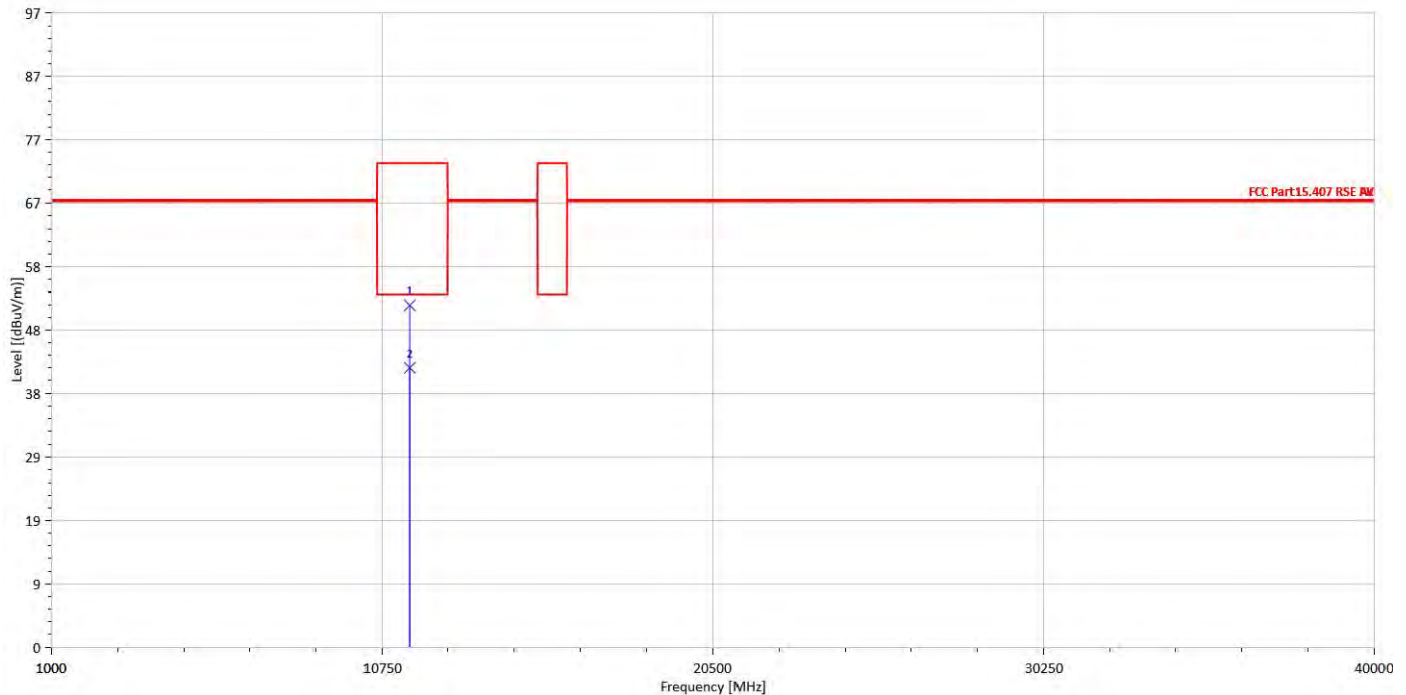
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| | | | |
|-------------------------|-----------|----------------------------|-----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7 deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11570.00 | H | Peak | 30.87 | 21.44 | 52.32 | 74 | -21.68 |
| 11570.00 | H | Average | 21.25 | 21.44 | 42.69 | 54 | -11.31 |

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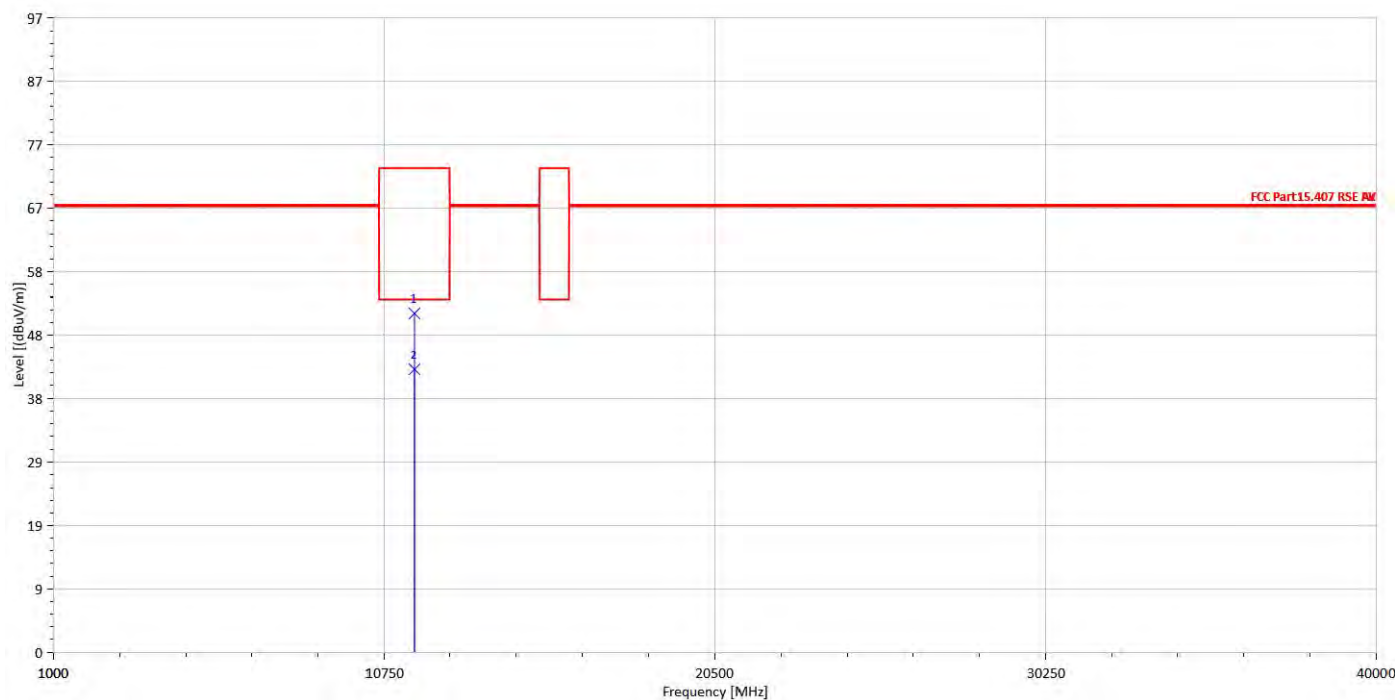
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11650.00 | H | Peak | 29.83 | 22.02 | 51.86 | 74 | -22.14 |
| 11650.00 | H | Average | 21.21 | 22.02 | 43.23 | 54 | -10.77 |

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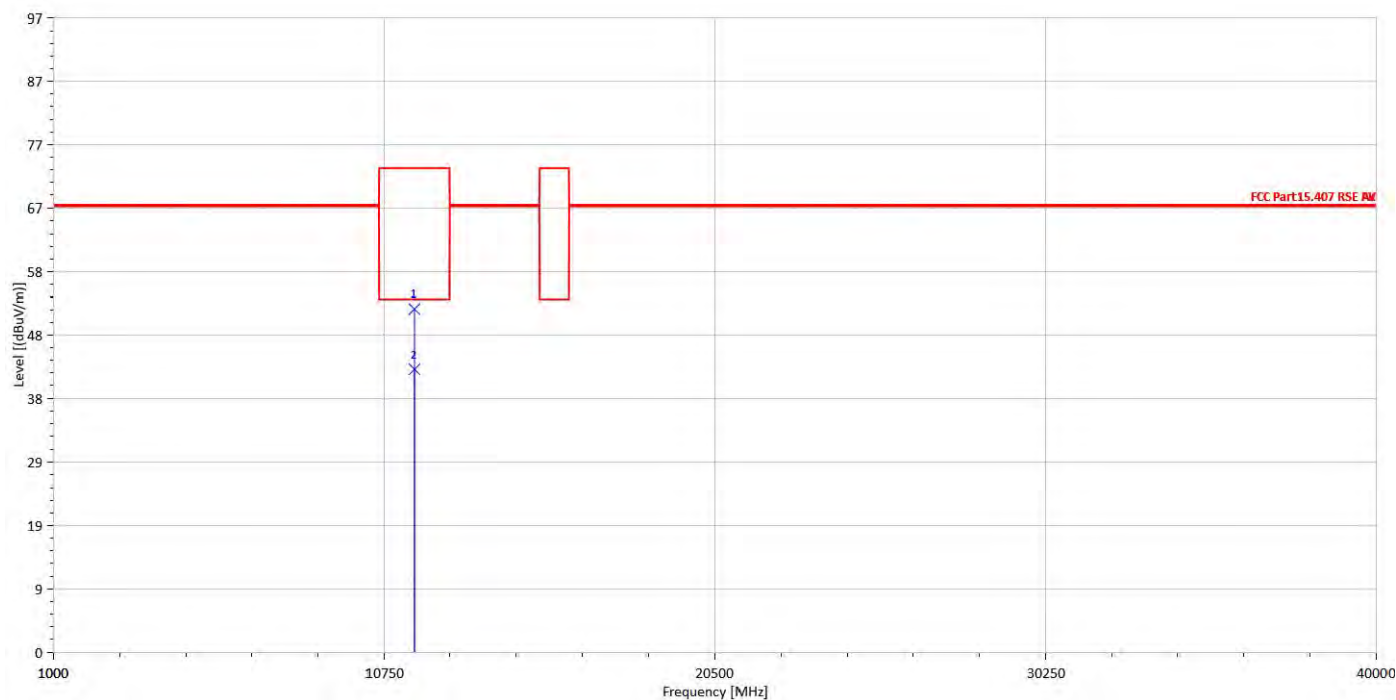
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Ashton |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11650.00 | H | Peak | 30.50 | 22.02 | 52.53 | 74 | -21.47 |
| 11650.00 | H | Average | 21.21 | 22.02 | 43.23 | 54 | -10.77 |

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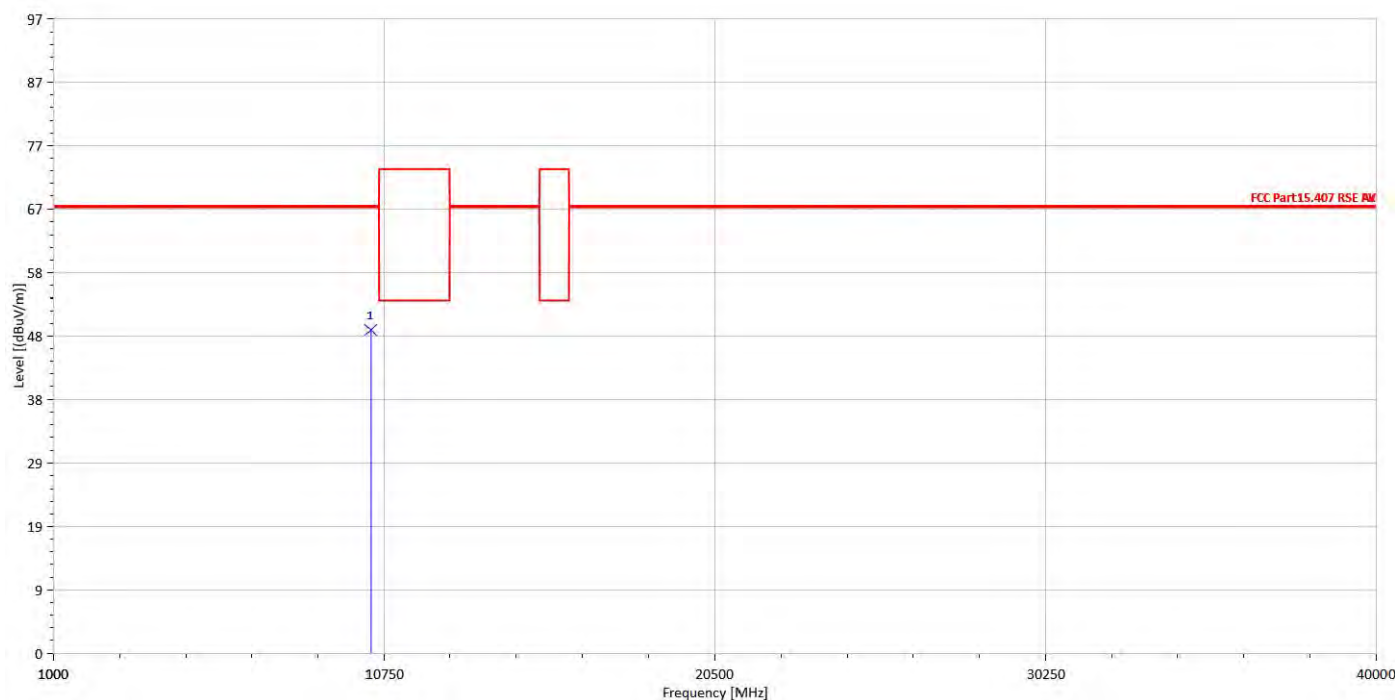
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10360.00 | H | Peak | 29.28 | 20.18 | 49.46 | 68.3 | -18.84 |

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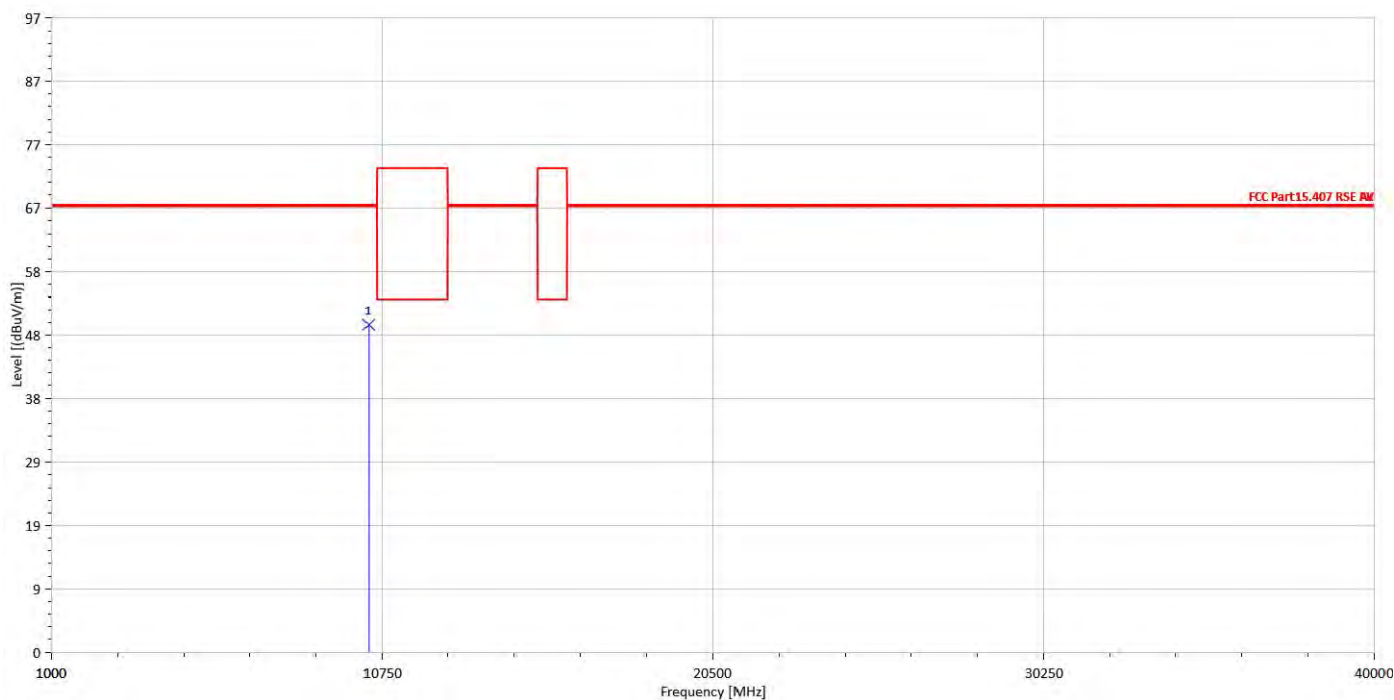
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Operation Mode : 802.11n20 Test Date : 2016/8/14
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10360.00 | H | Peak | 29.93 | 20.18 | 50.11 | 68.3 | -18.19 |

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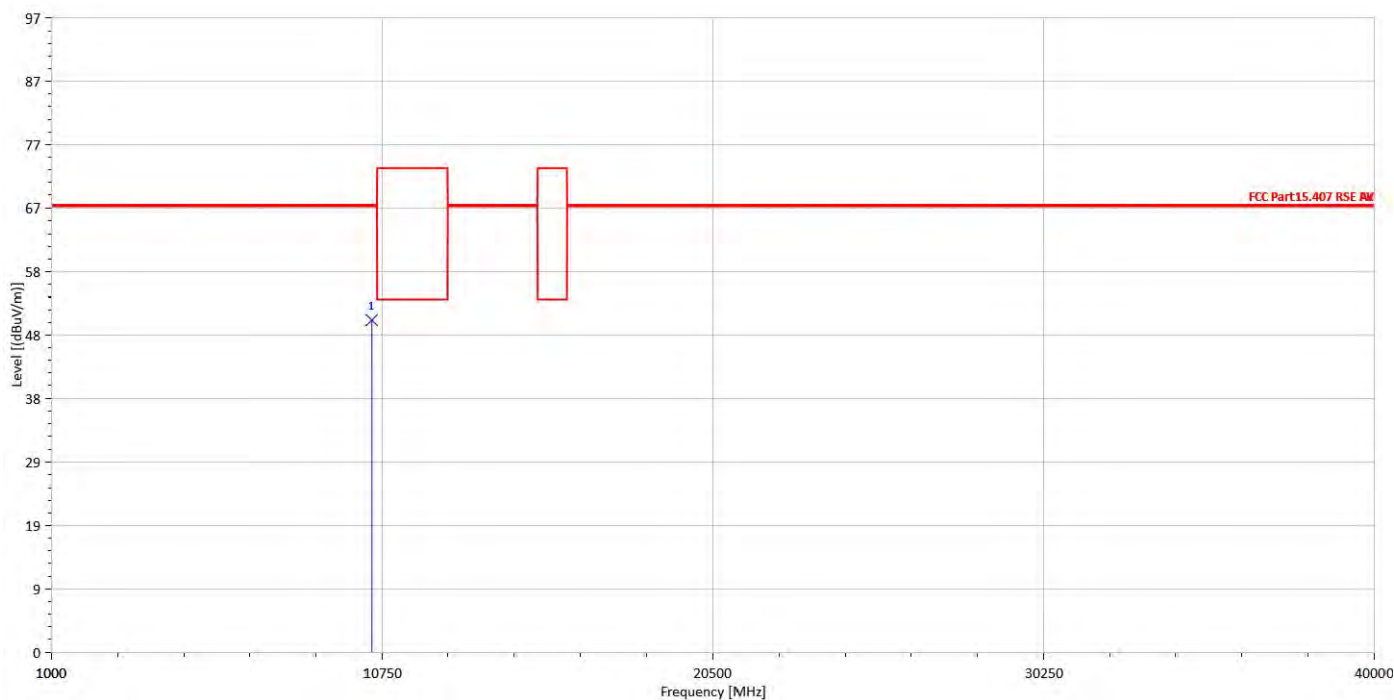
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 10440.00 | H | Peak | 30.54 | 20.29 | 50.83 | 68.3 | -17.47 |

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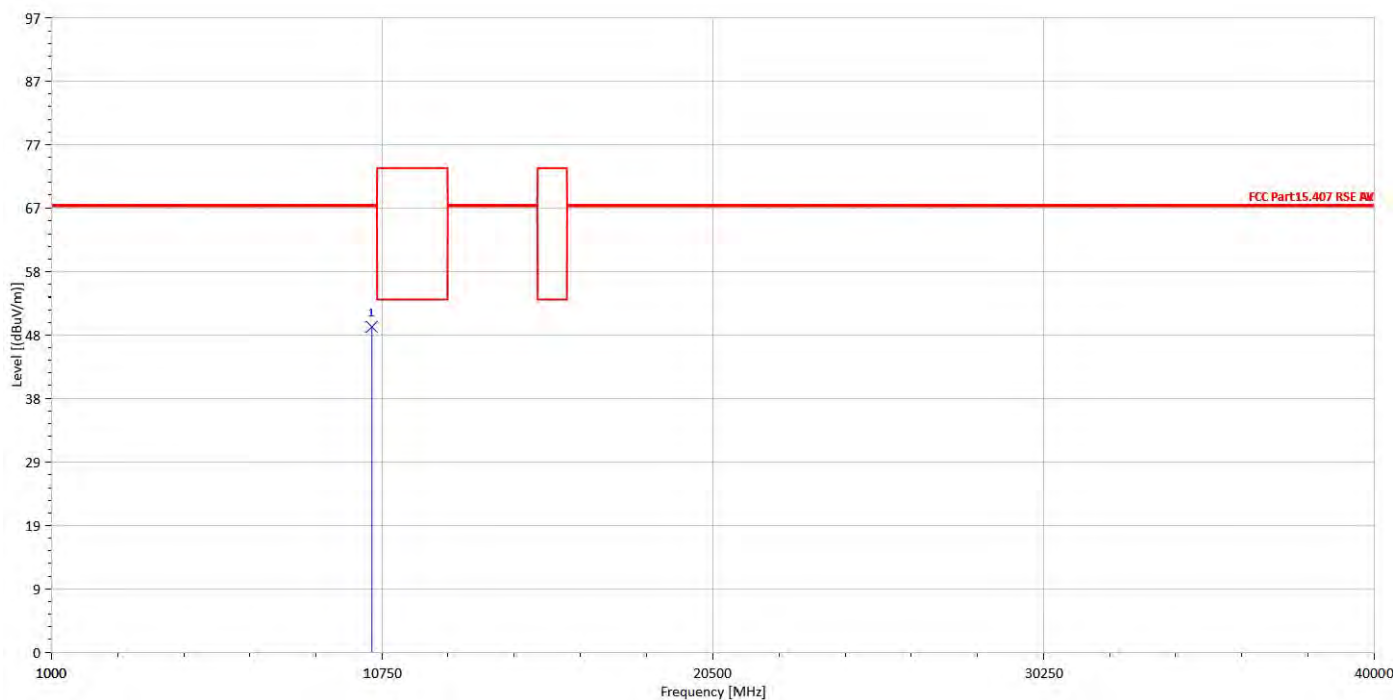
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10440.00 | H | Peak | 29.50 | 20.29 | 49.79 | 68.3 | -18.51 |

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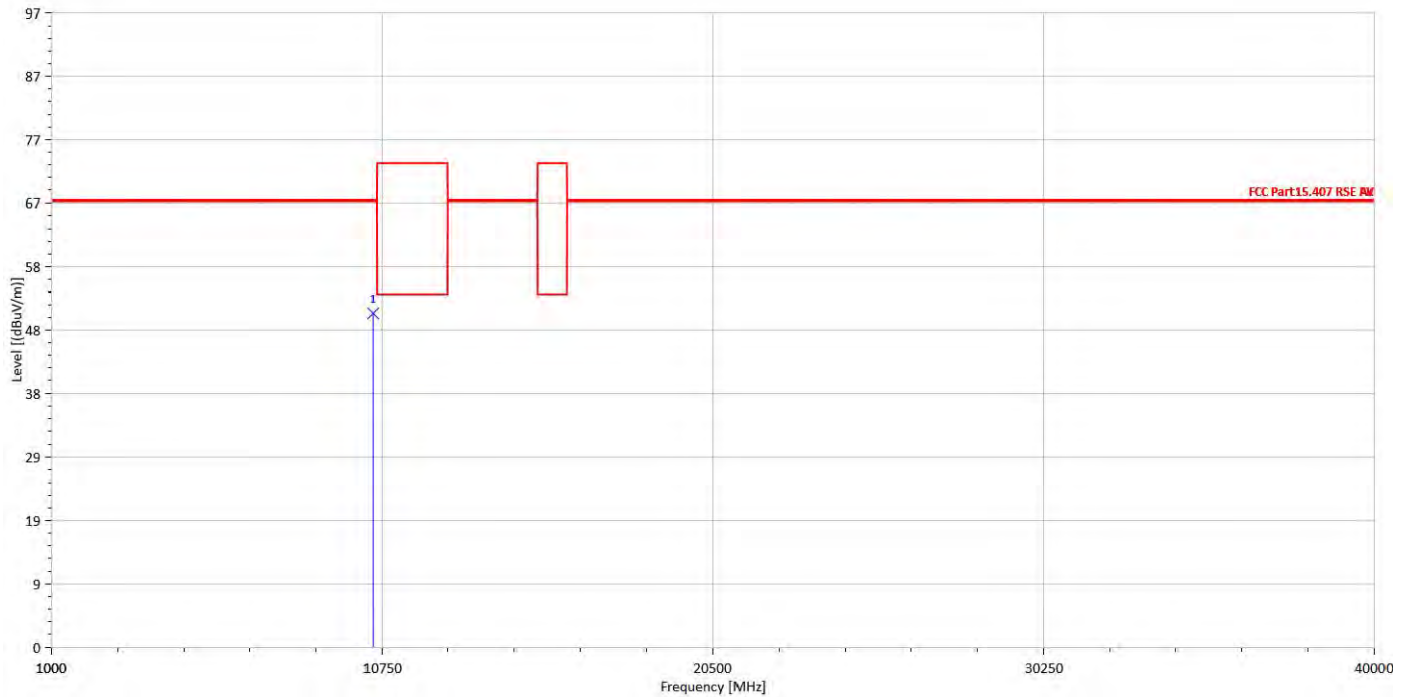
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10480.00 | H | Peak | 30.42 | 20.68 | 51.10 | 68.3 | -17.20 |

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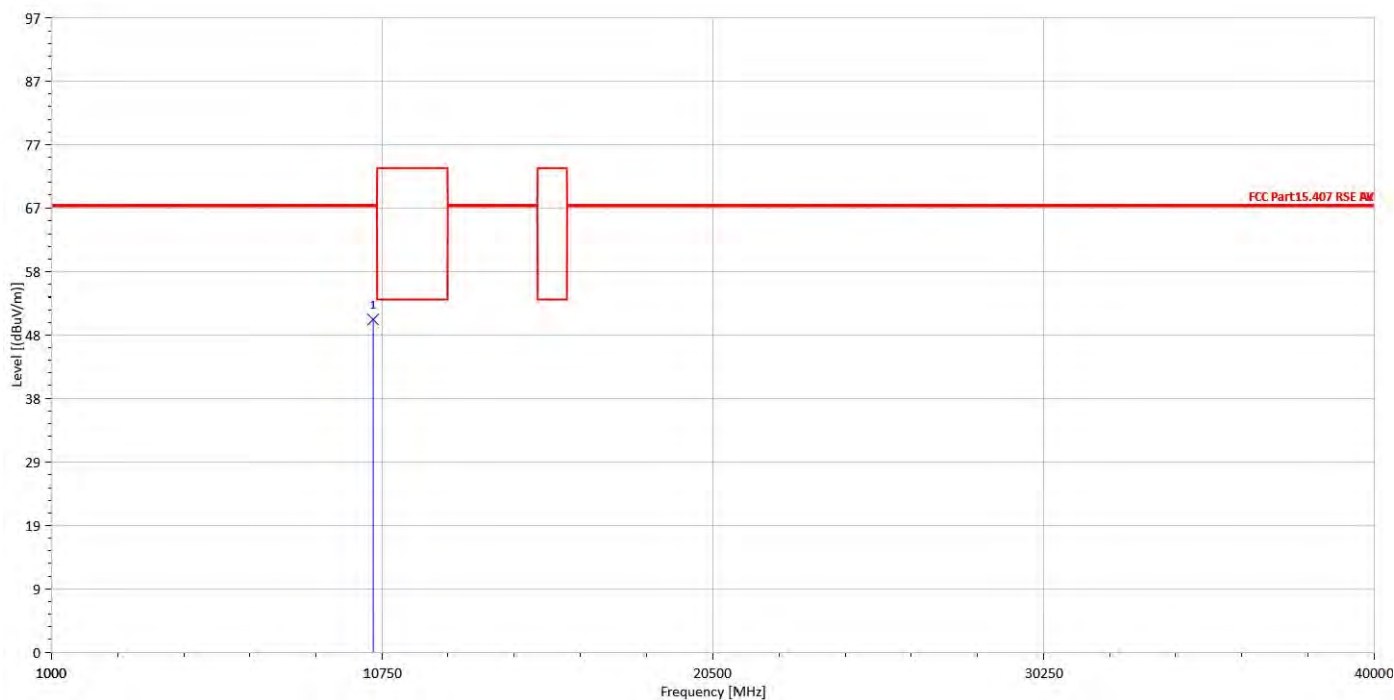
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5240 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 10480.00 | H | Peak | 30.24 | 20.68 | 50.92 | 68.3 | -17.38 |

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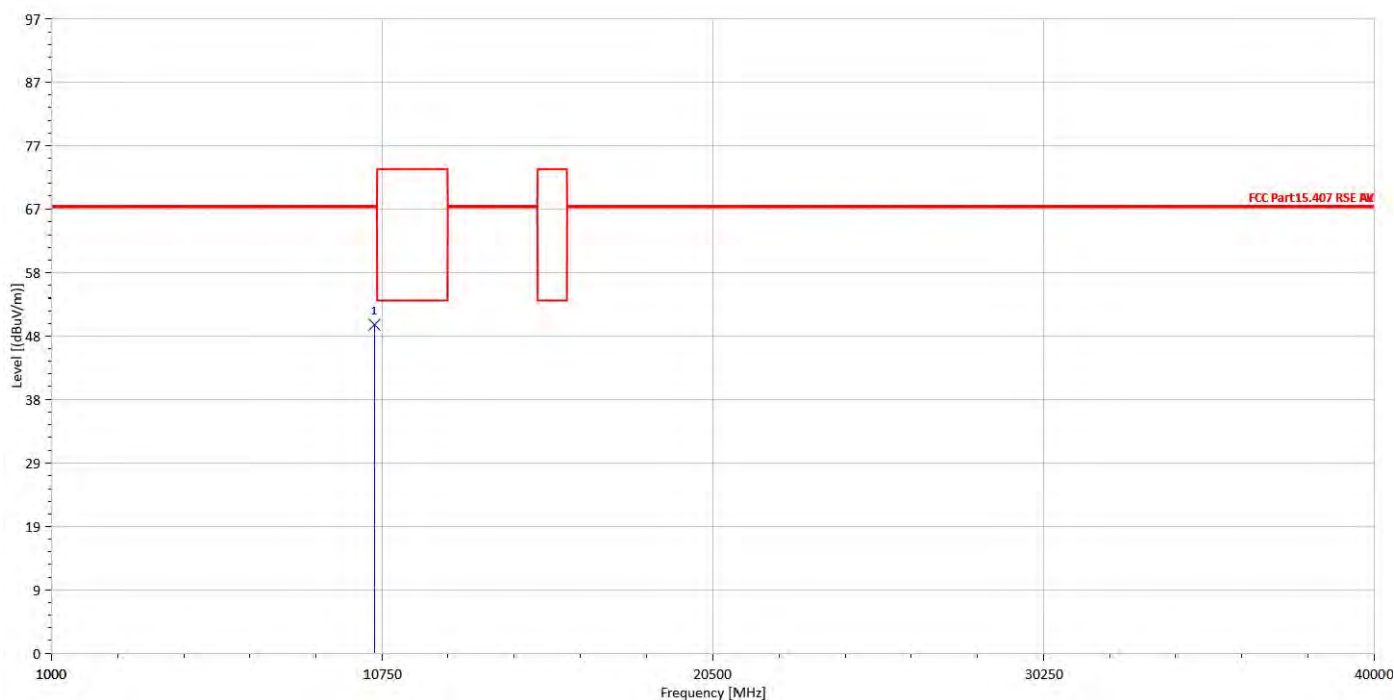
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5260 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10520.00 | H | Peak | 30.16 | 20.10 | 50.26 | 68.3 | -18.04 |

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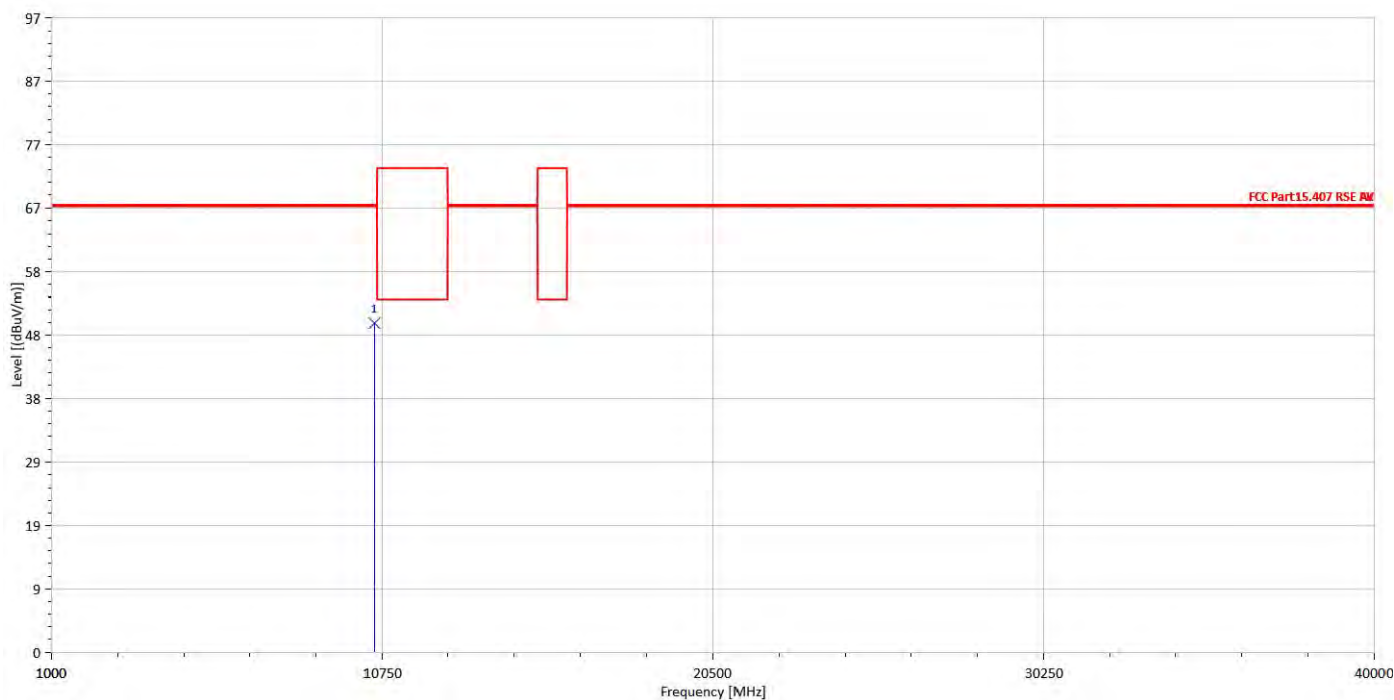
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Operation Mode : 802.11n20 Test Date : 2016/8/14
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 10520.00 | H | Peak | 30.26 | 20.10 | 50.36 | 68.3 | -17.94 |

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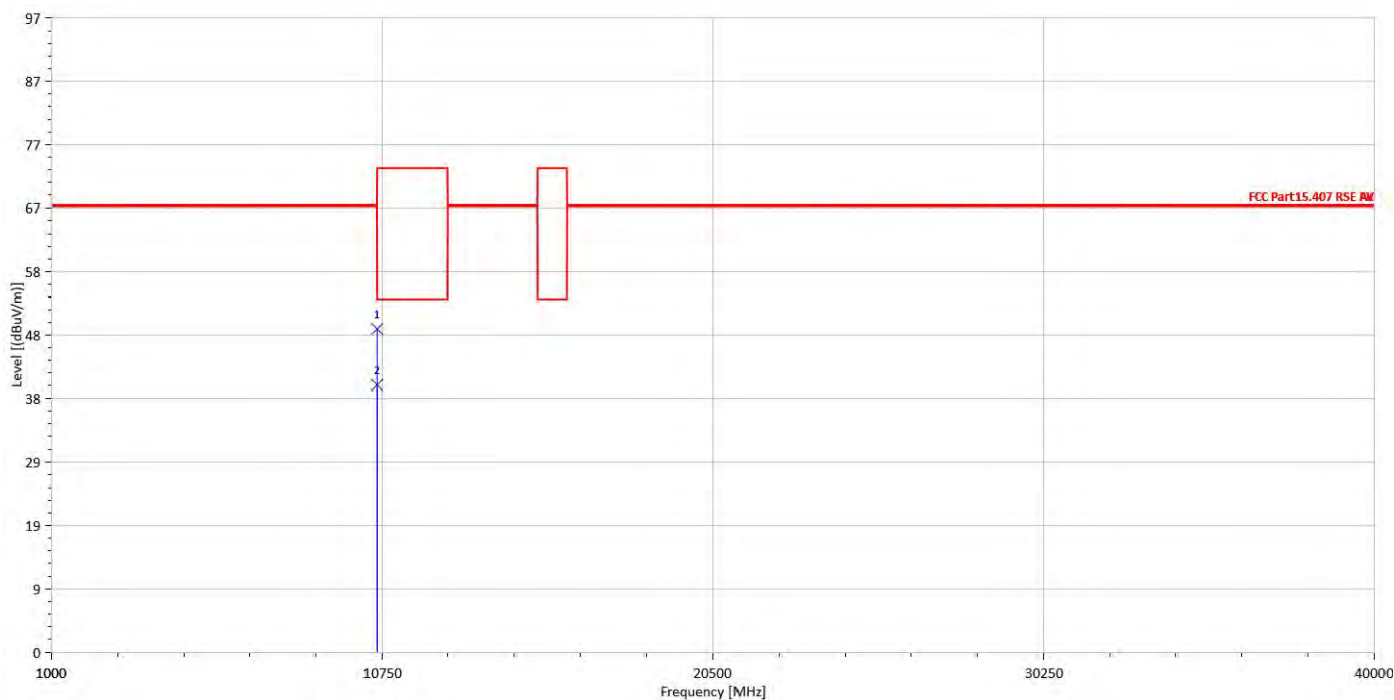
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5300 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 10600.00 | H | Peak | 29.29 | 20.17 | 49.45 | 74 | -24.55 |
| 10600.00 | H | Average | 20.69 | 20.17 | 40.86 | 54 | -13.14 |

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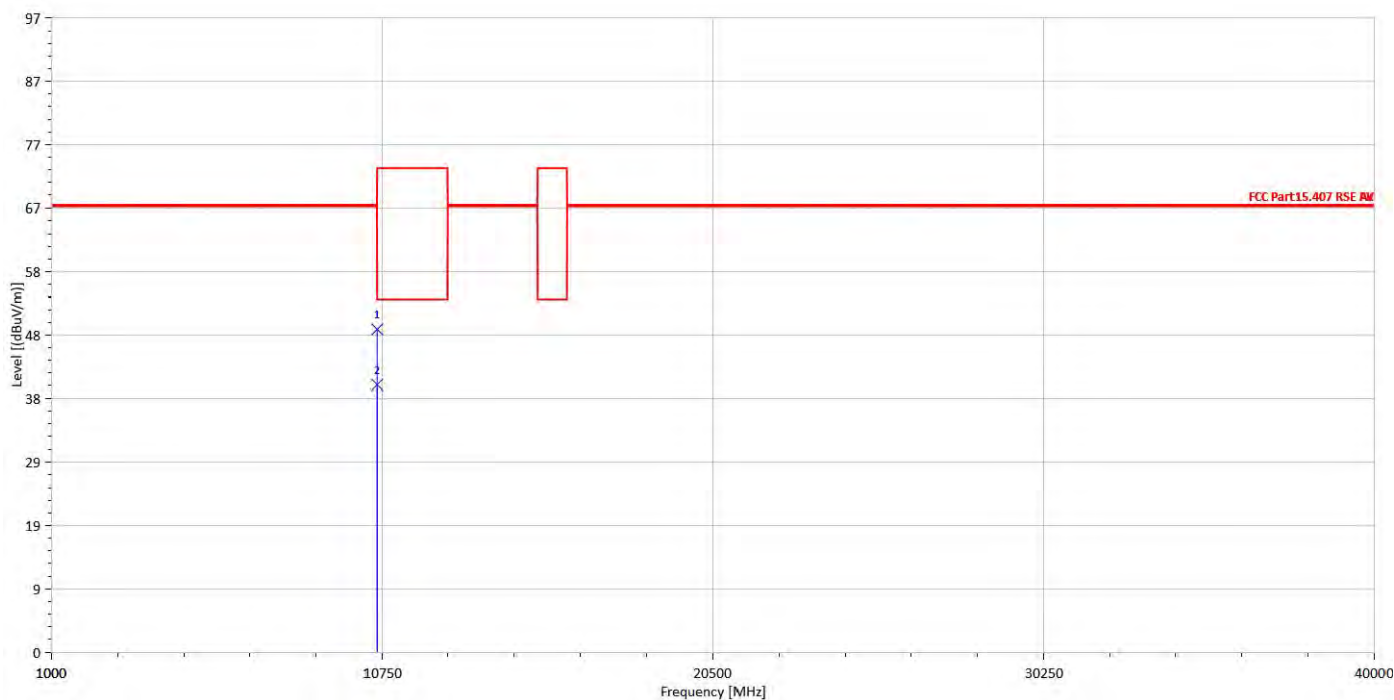
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Operation Mode : 802.11n20 Test Date : 2016/8/14
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10600.00 | H | Peak | 29.23 | 20.17 | 49.40 | 74 | -24.60 |
| 10600.00 | H | Average | 20.70 | 20.17 | 40.87 | 54 | -13.13 |

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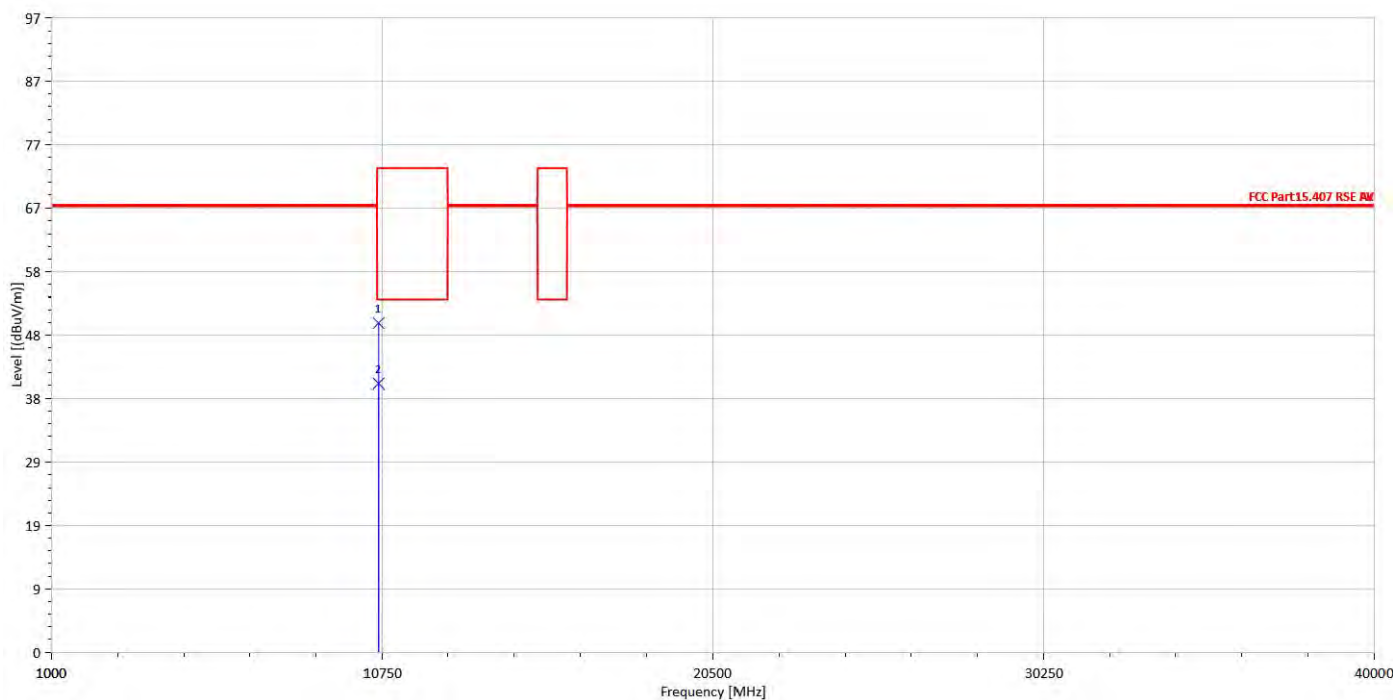
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Operation Mode : 802.11n20 Test Date : 2016/8/14
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10640.00 | H | Peak | 30.03 | 20.34 | 50.37 | 74 | -23.63 |
| 10640.00 | H | Average | 20.70 | 20.34 | 41.04 | 54 | -12.96 |

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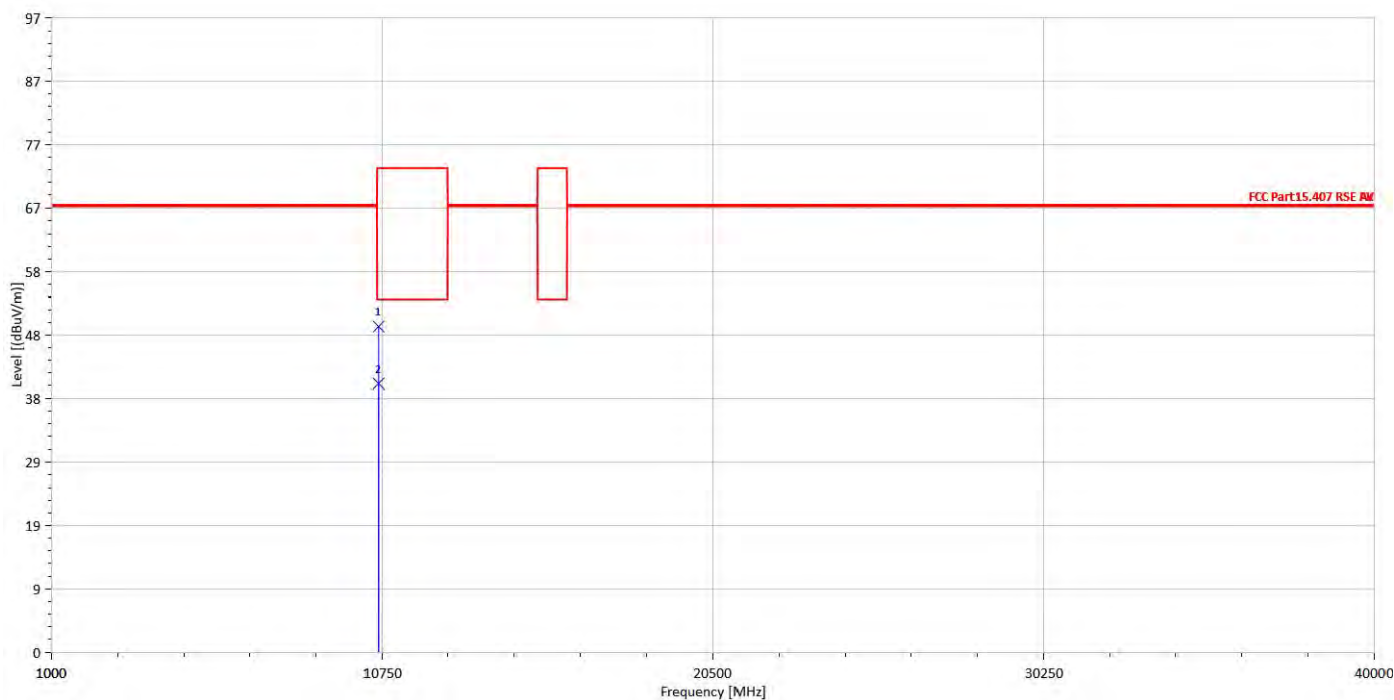
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Operation Mode : 802.11n20 Test Date : 2016/8/14
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 10640.00 | H | Peak | 29.50 | 20.34 | 49.84 | 74 | -24.16 |
| 10640.00 | H | Average | 20.70 | 20.34 | 41.04 | 54 | -12.96 |

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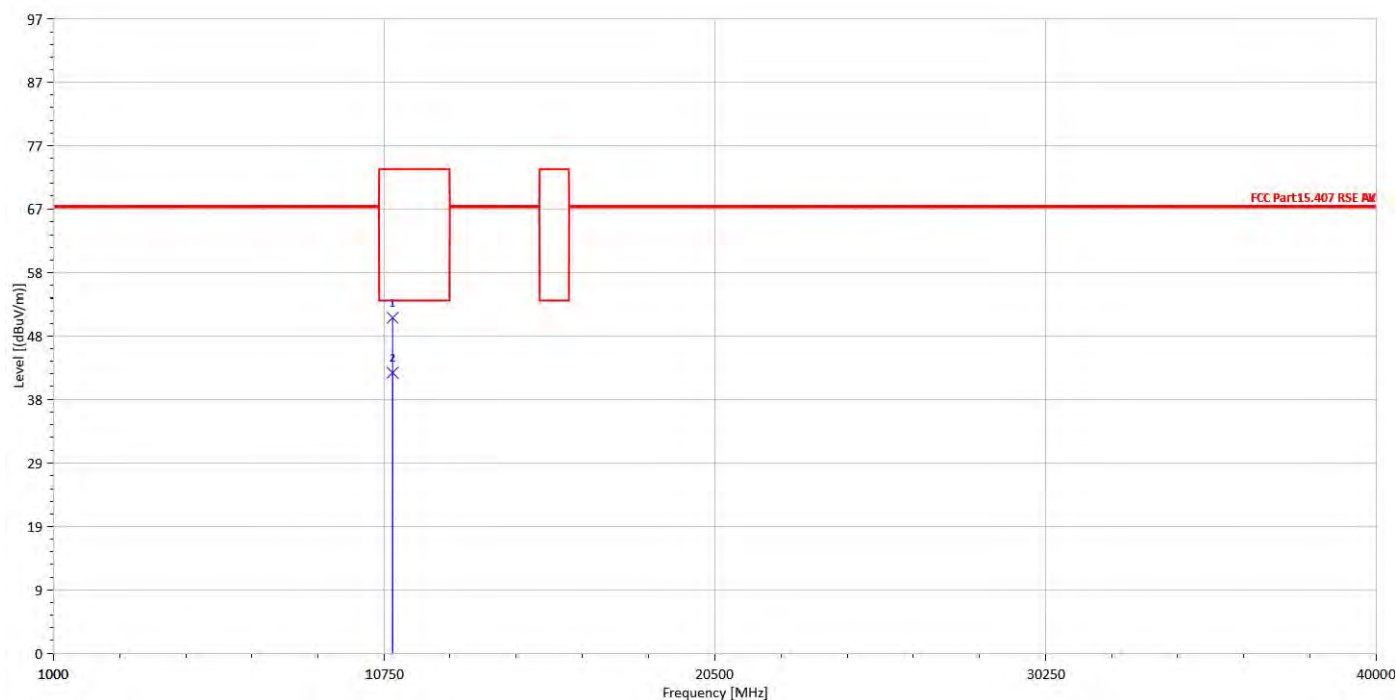
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11000.00 | H | Peak | 29.25 | 22.11 | 51.35 | 74 | -22.65 |
| 11000.00 | H | Average | 20.75 | 22.11 | 42.86 | 54 | -11.14 |

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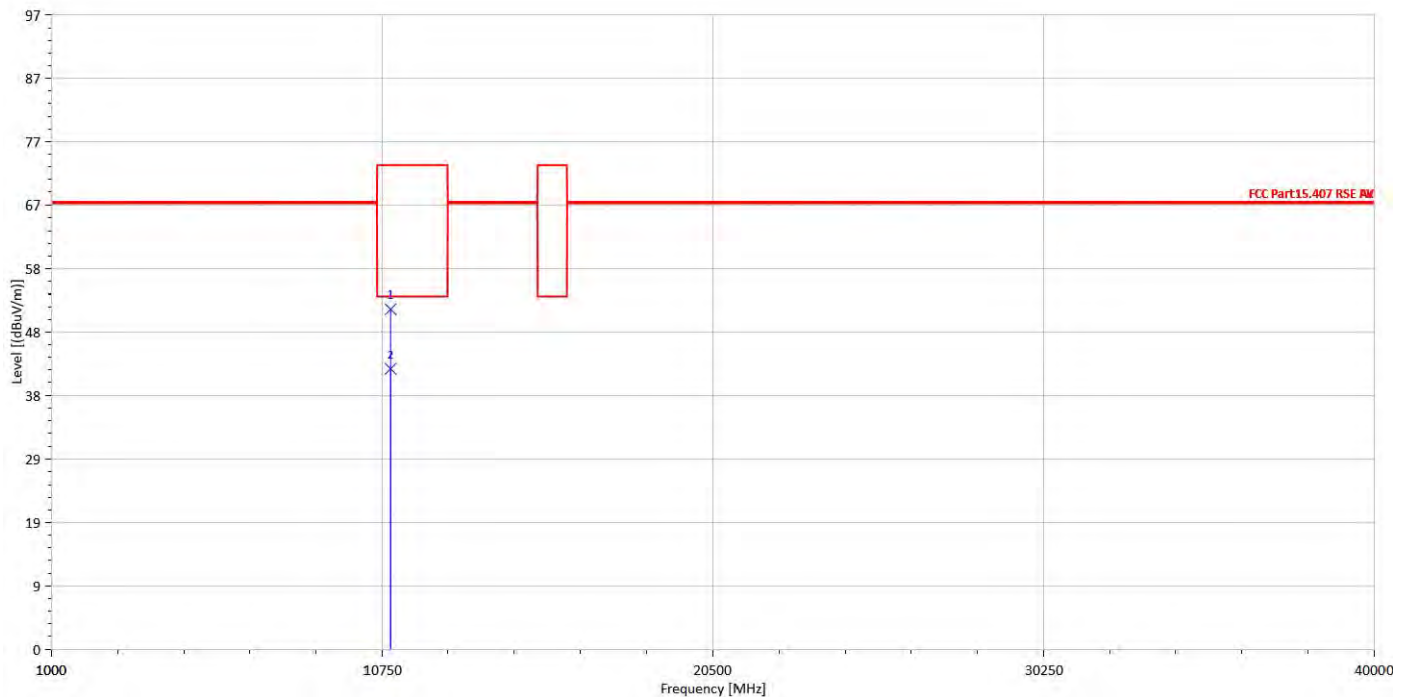
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Operation Mode : 802.11n20 Test Date : 2016/8/14
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11000.00 | H | Peak | 29.93 | 22.11 | 52.04 | 74 | -21.96 |
| 11000.00 | H | Average | 20.74 | 22.11 | 42.85 | 54 | -11.15 |

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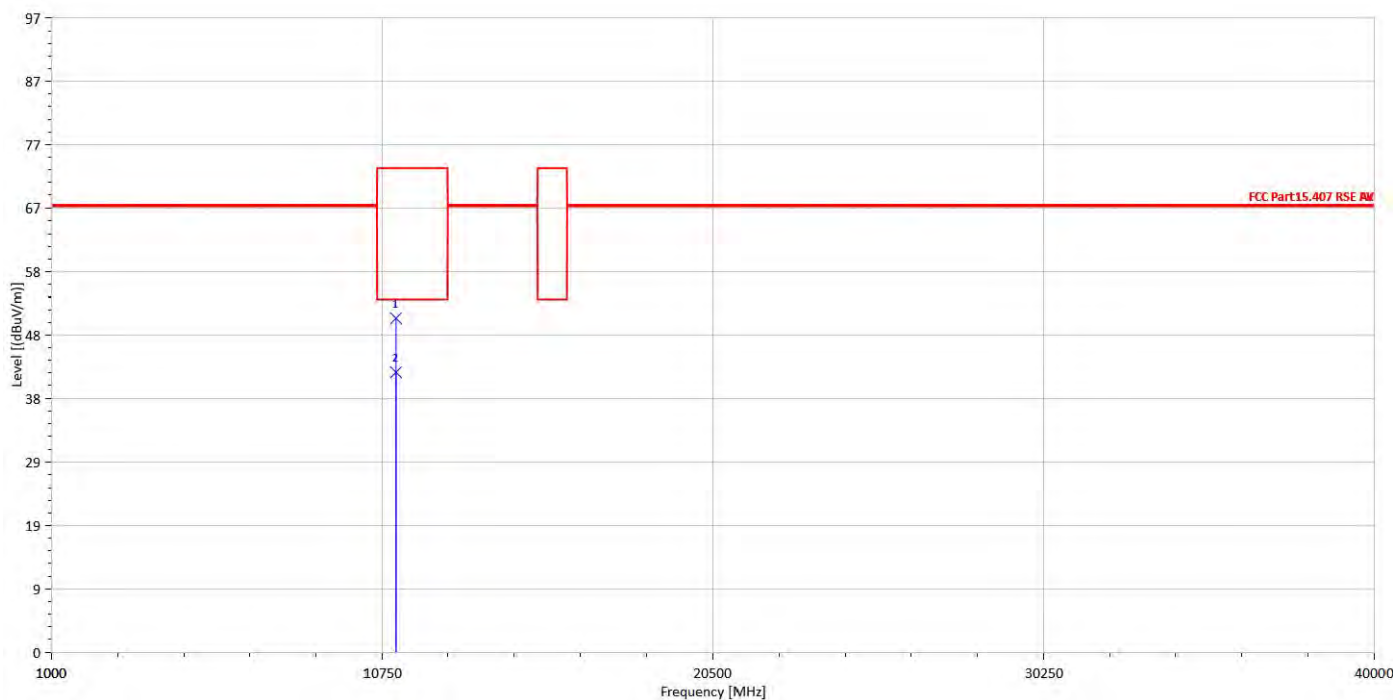
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5580 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.00 | H | Peak | 29.07 | 22.04 | 51.10 | 74 | -22.90 |
| 11160.00 | H | Average | 20.73 | 22.04 | 42.77 | 54 | -11.23 |

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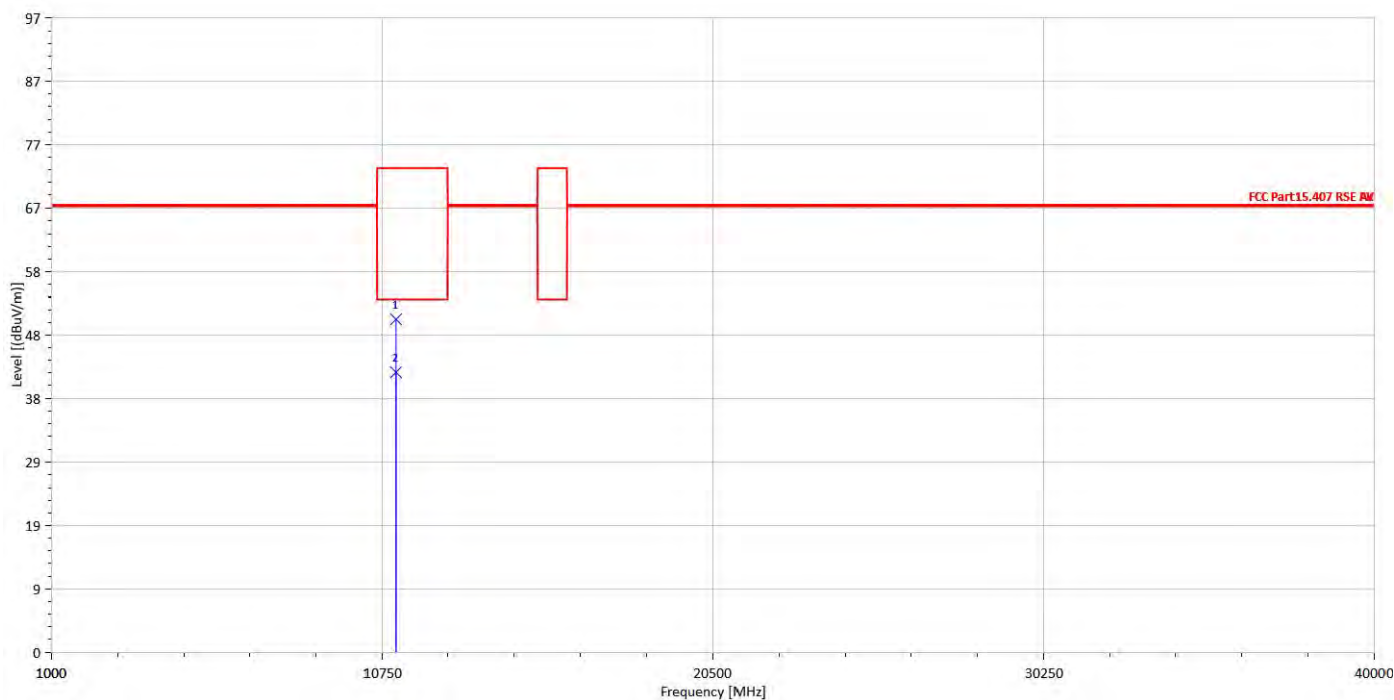
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5580 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 11160.00 | H | Peak | 28.91 | 22.04 | 50.95 | 74 | -23.05 |
| 11160.00 | H | Average | 20.73 | 22.04 | 42.77 | 54 | -11.23 |

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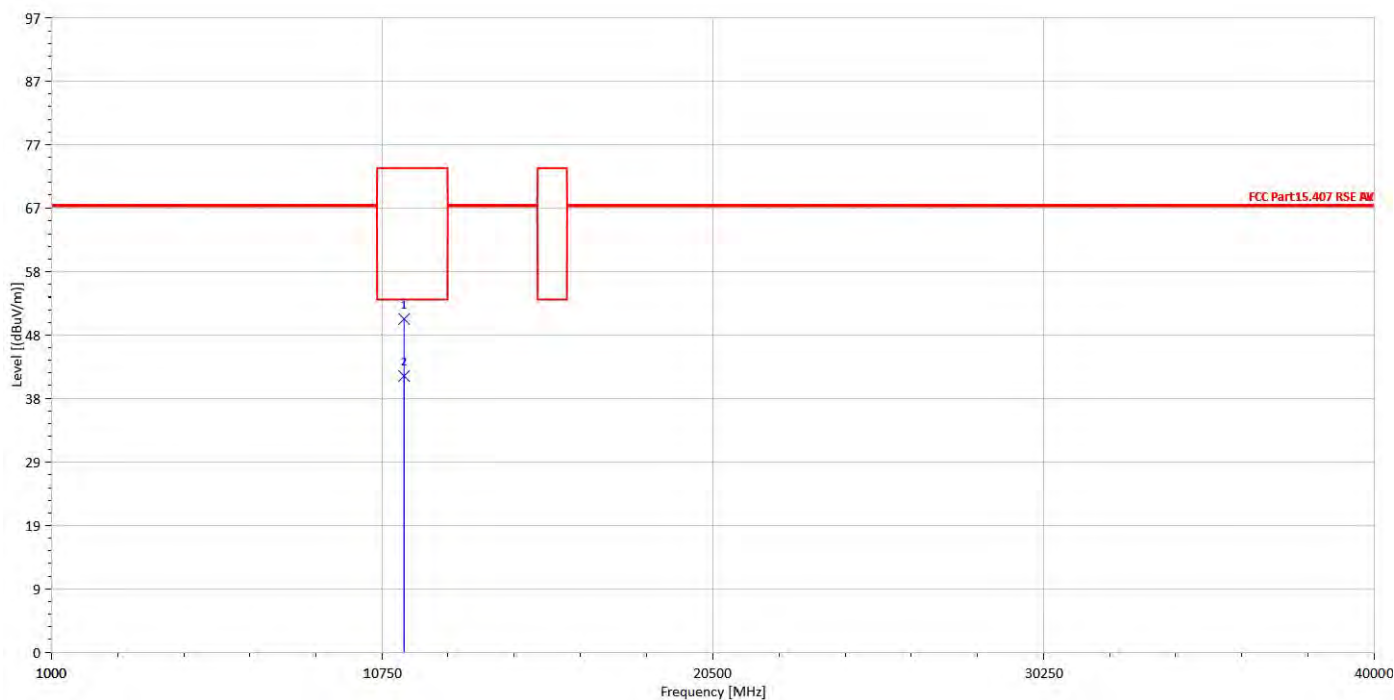
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Operation Mode : 802.11n20 Test Date : 2016/8/14
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11400.00 | H | Peak | 29.78 | 21.22 | 51.00 | 74 | -23.00 |
| 11400.00 | H | Peak | 20.99 | 21.22 | 42.21 | 74 | -31.79 |

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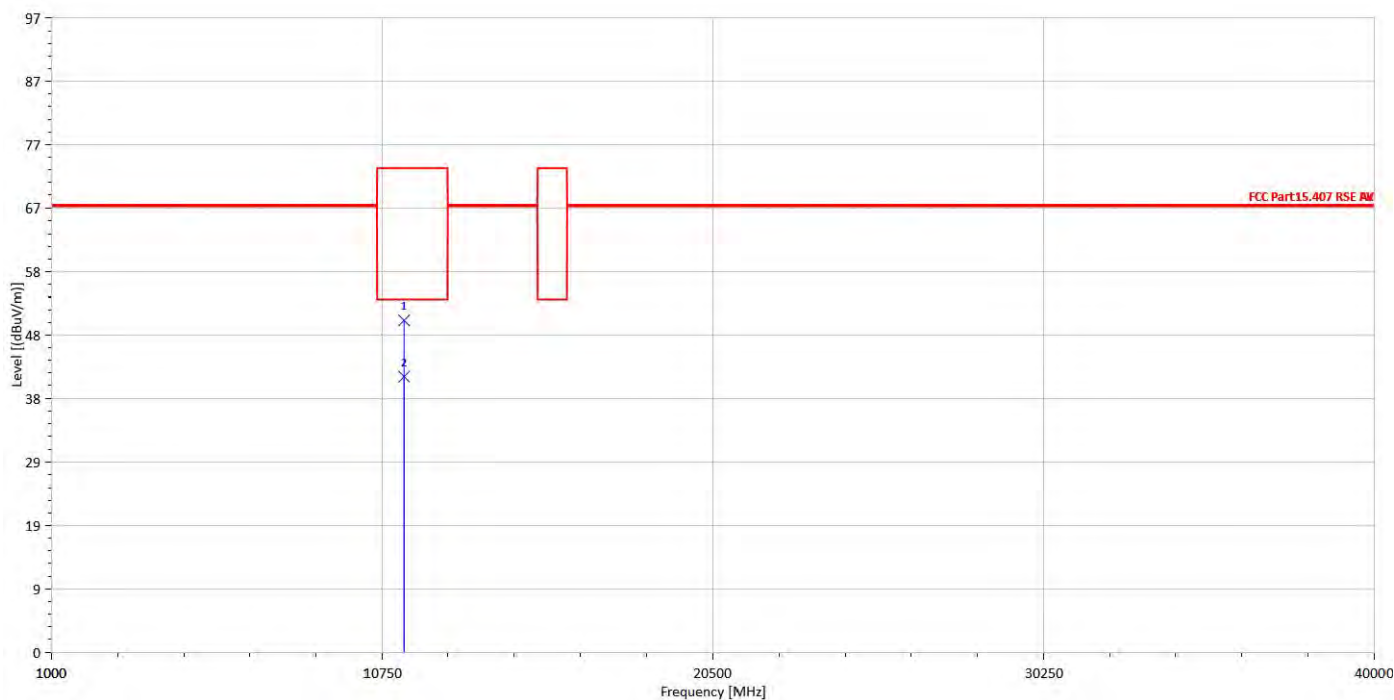
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Operation Mode : 802.11n20 Test Date : 2016/8/14
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 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11400.00 | H | Peak | 29.57 | 21.22 | 50.79 | 74 | -23.21 |
| 11400.00 | H | Average | 20.89 | 21.22 | 42.11 | 54 | -11.89 |

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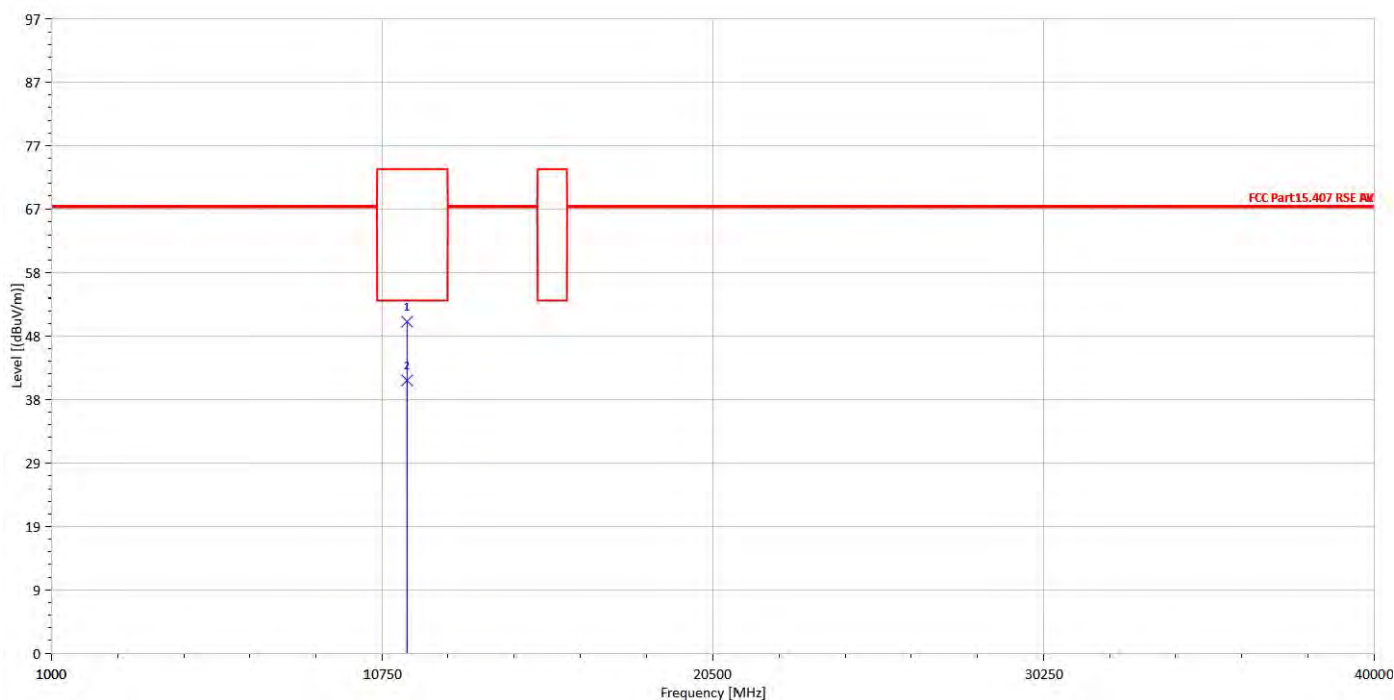
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11490.00 | H | Peak | 30.03 | 20.70 | 50.74 | 74 | -23.26 |
| 11490.00 | H | Average | 20.98 | 20.70 | 41.68 | 54 | -12.32 |

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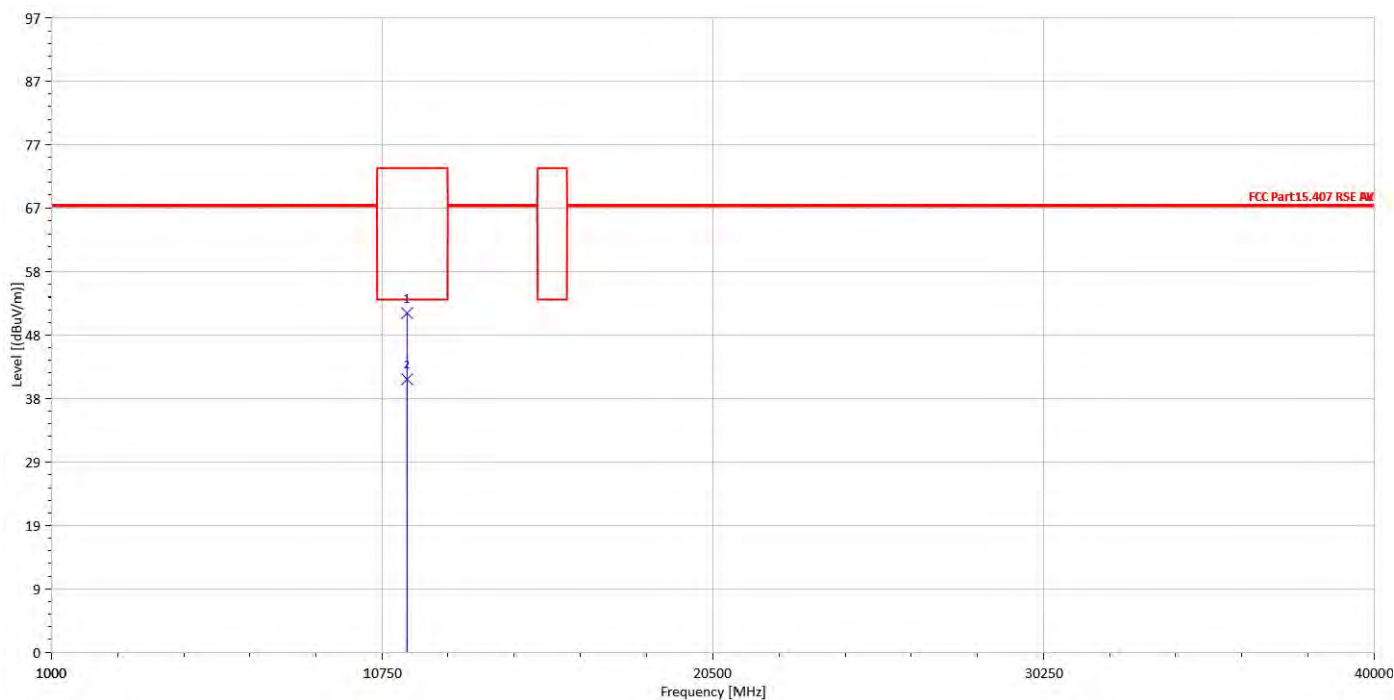
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11490.00 | H | Peak | 31.20 | 20.70 | 51.91 | 74 | -22.09 |
| 11490.00 | H | Average | 20.99 | 20.70 | 41.69 | 54 | -12.31 |

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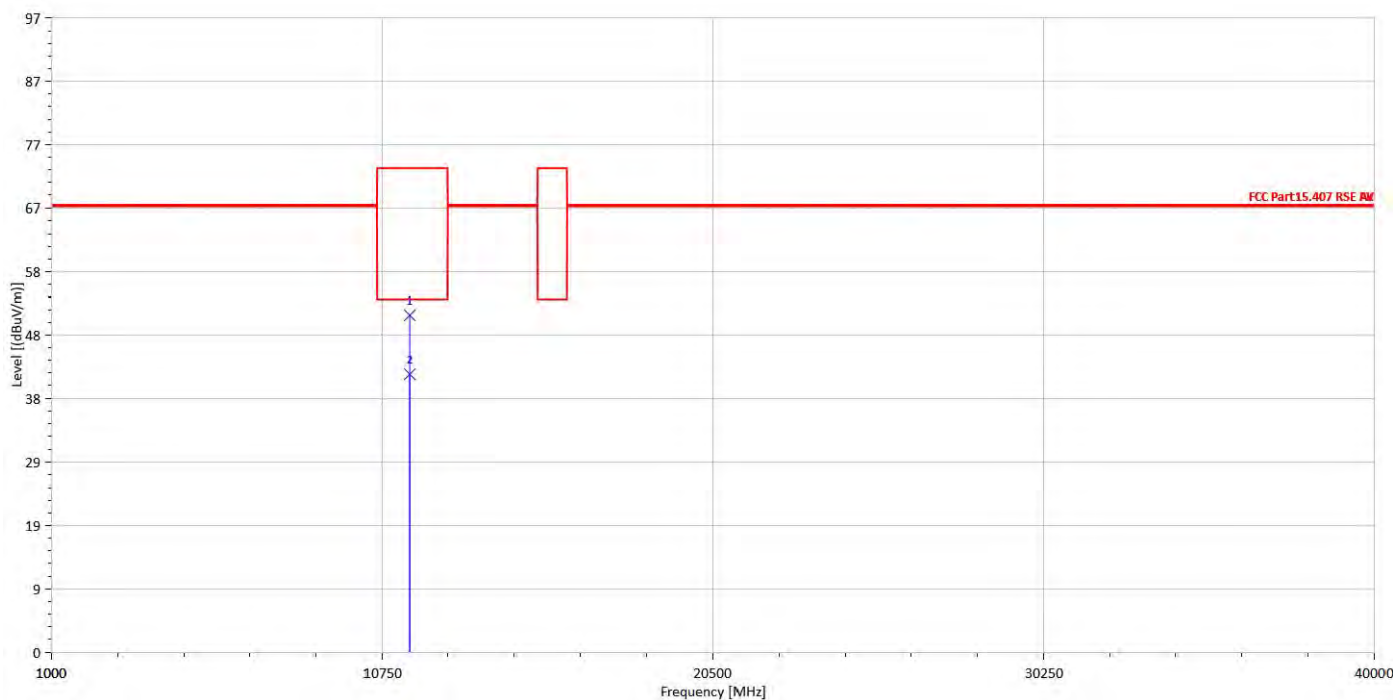
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Operation Mode : 802.11n20 Test Date : 2016/8/14
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11570.00 | H | Peak | 30.13 | 21.44 | 51.57 | 74 | -22.43 |
| 11570.00 | H | Average | 21.02 | 21.44 | 42.46 | 54 | -11.54 |

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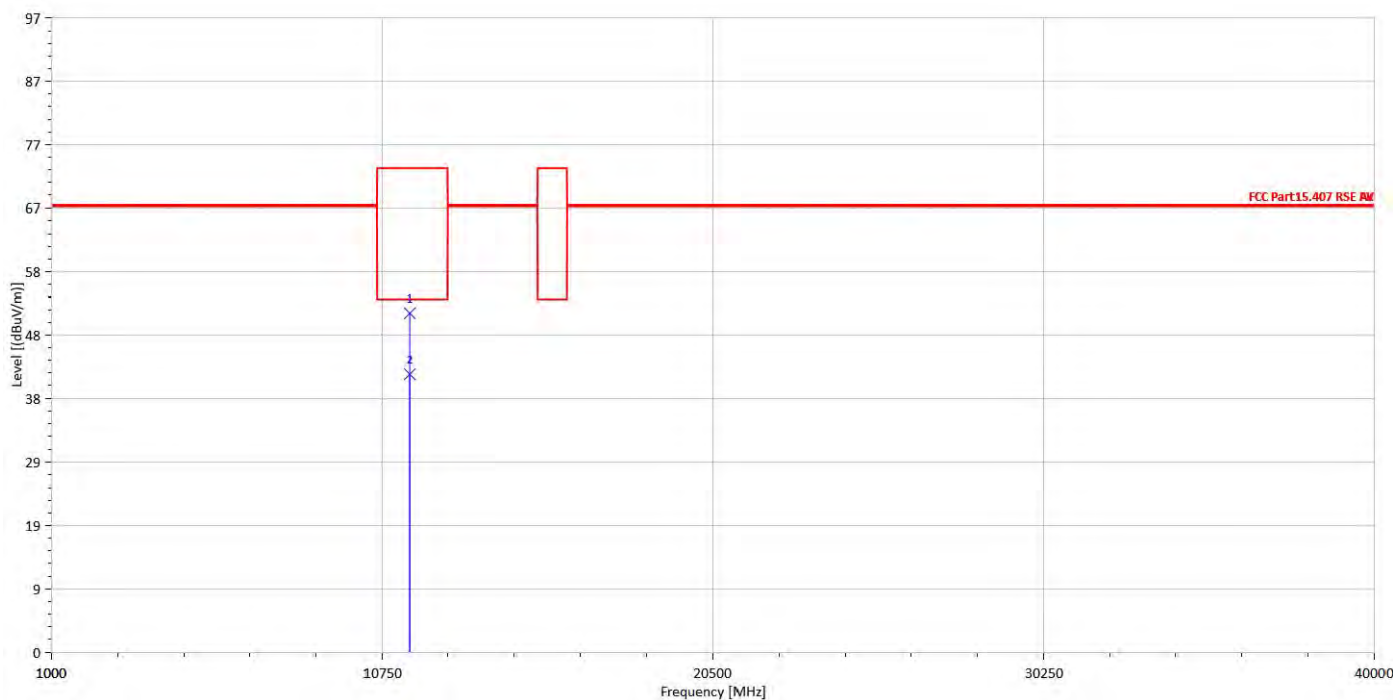
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11570.00 | H | Peak | 30.44 | 21.44 | 51.88 | 74 | -22.12 |
| 11570.00 | H | Average | 21.02 | 21.44 | 42.46 | 54 | -11.54 |

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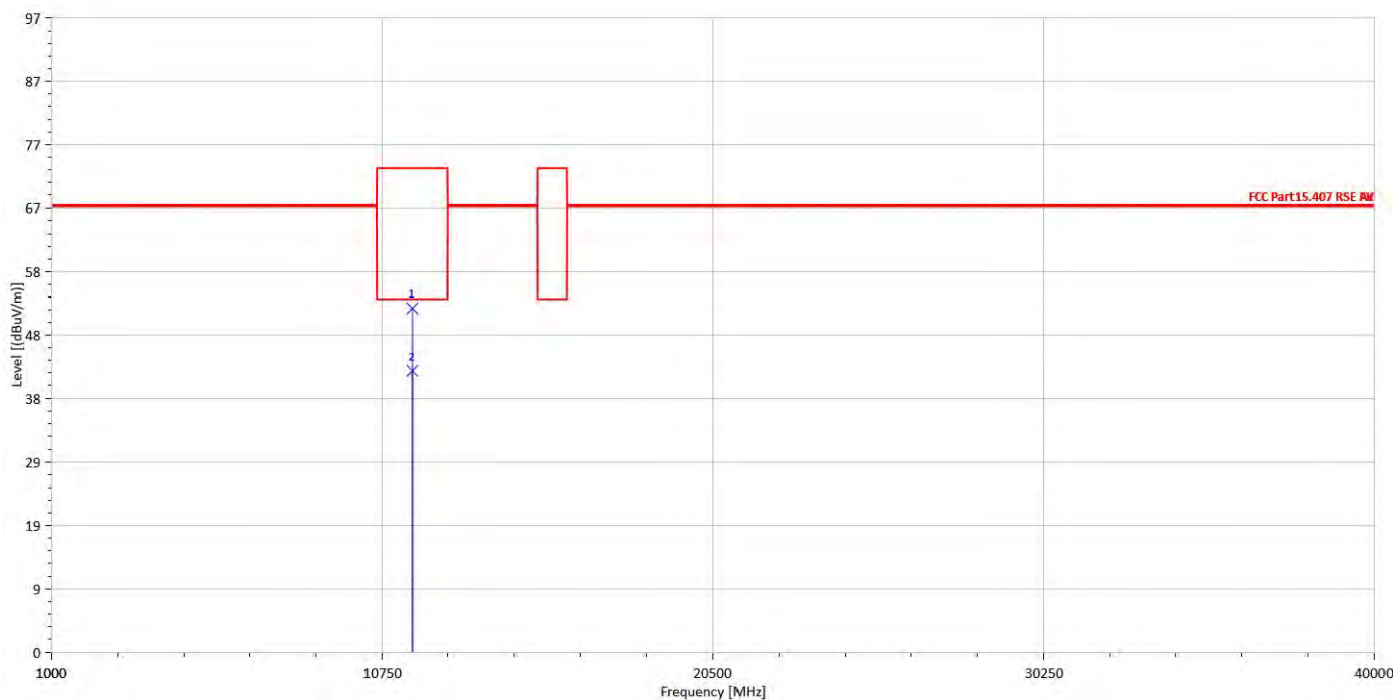
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11650.00 | H | Peak | 30.59 | 22.02 | 52.61 | 74 | -21.39 |
| 11650.00 | H | Average | 20.98 | 22.02 | 43.00 | 54 | -11.00 |

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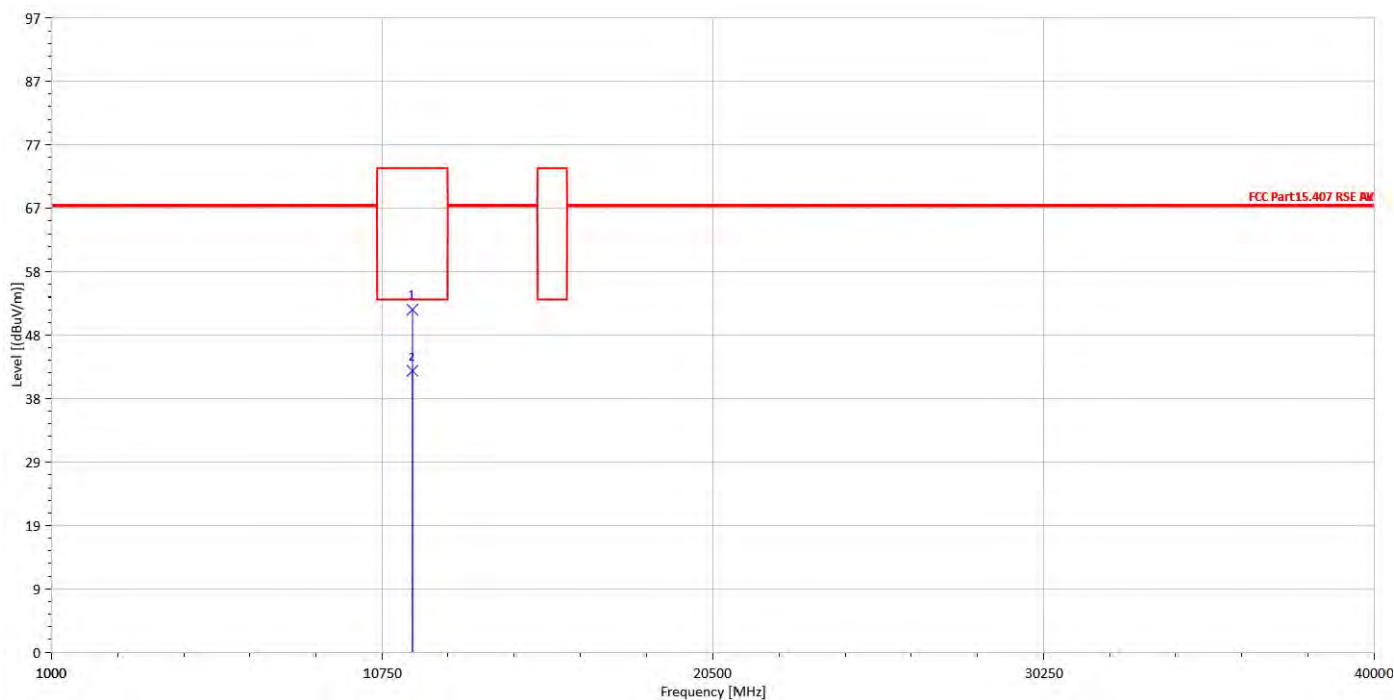
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Operation Mode : 802.11n20 Test Date : 2016/8/14
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11650.00 | H | Peak | 30.40 | 22.02 | 52.43 | 74 | -21.57 |
| 11650.00 | H | Average | 20.98 | 22.02 | 43.00 | 54 | -11.00 |

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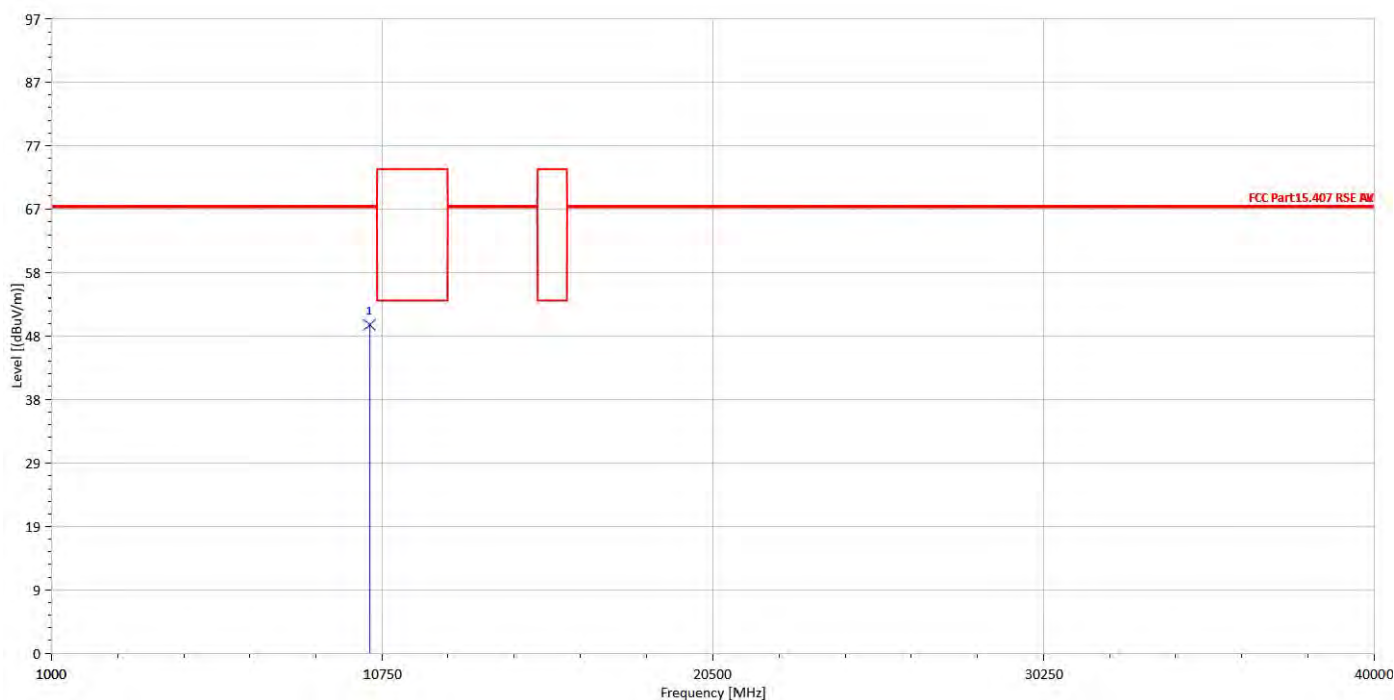
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10380.00 | H | Peak | 29.31 | 20.95 | 50.26 | 68.3 | -18.04 |

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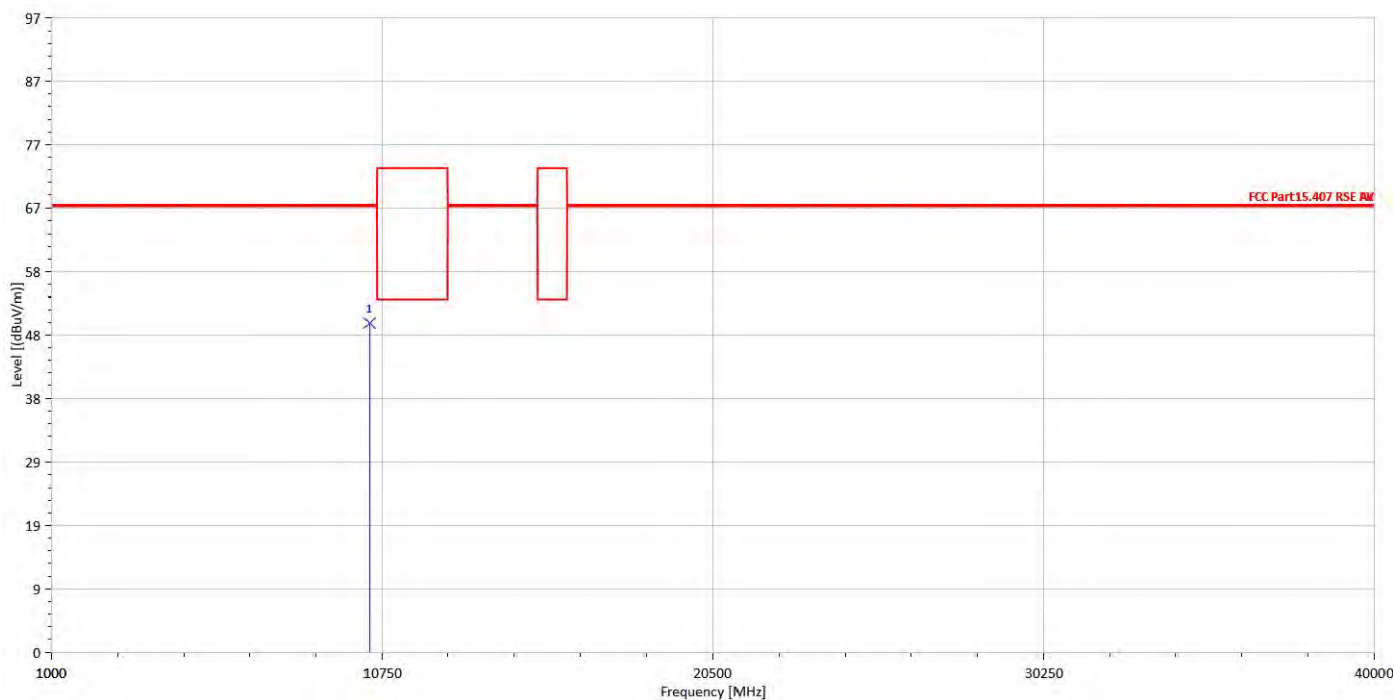
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10380.00 | H | Peak | 29.42 | 20.95 | 50.37 | 68.3 | -17.93 |

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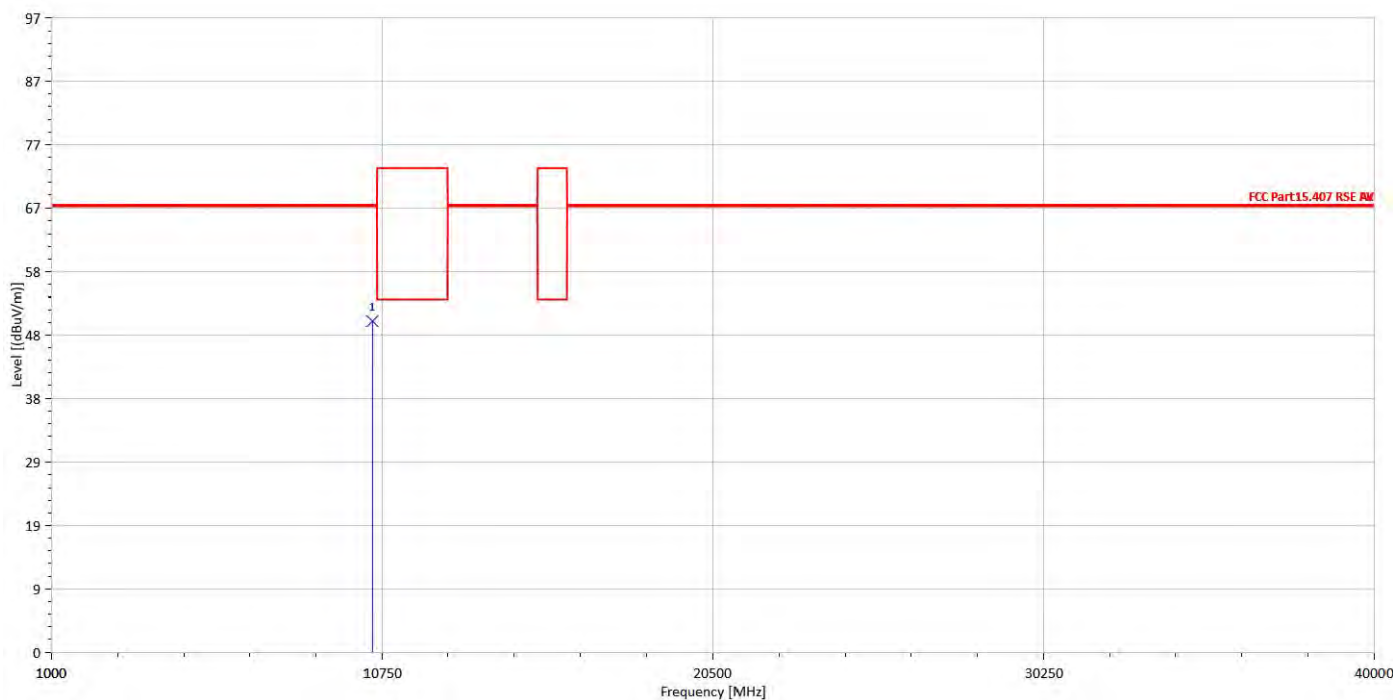
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 10460.00 | H | Peak | 29.71 | 20.95 | 50.67 | 68.3 | -17.63 |

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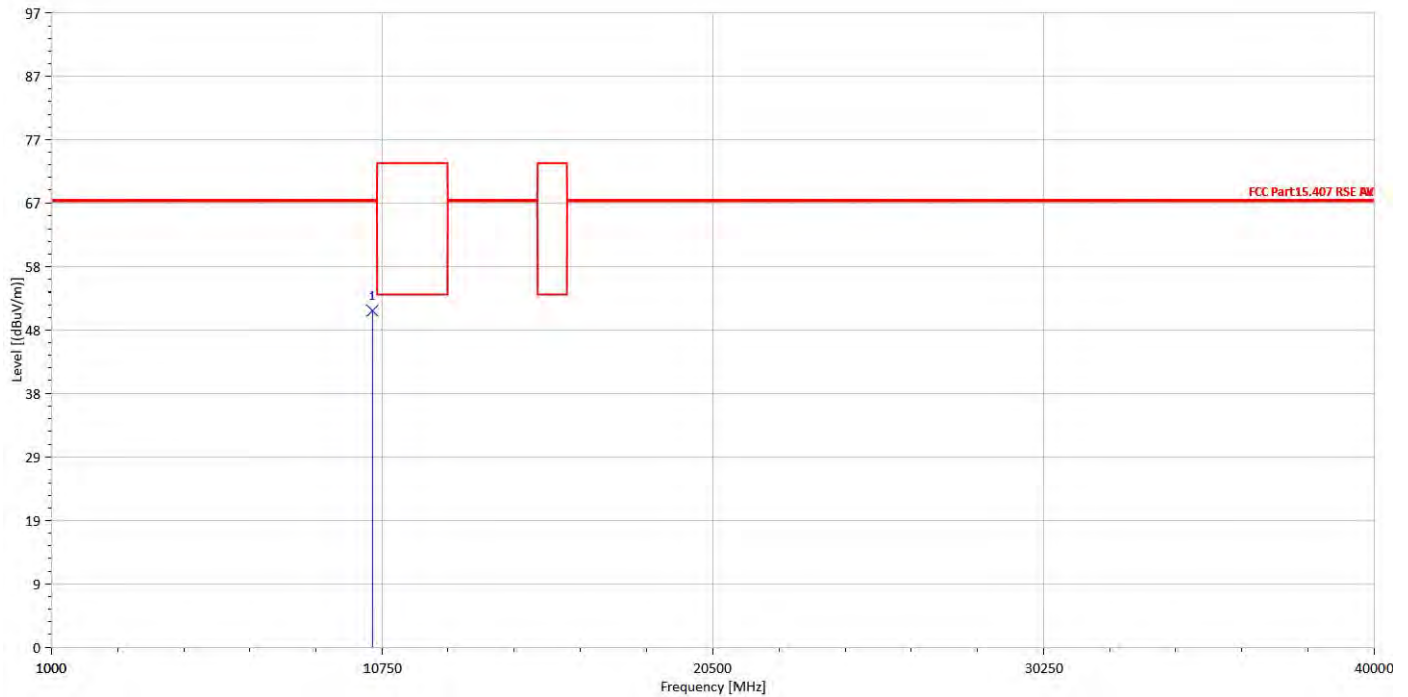
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5230 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 10460.00 | H | Peak | 30.56 | 20.95 | 51.51 | 68.3 | -16.79 |

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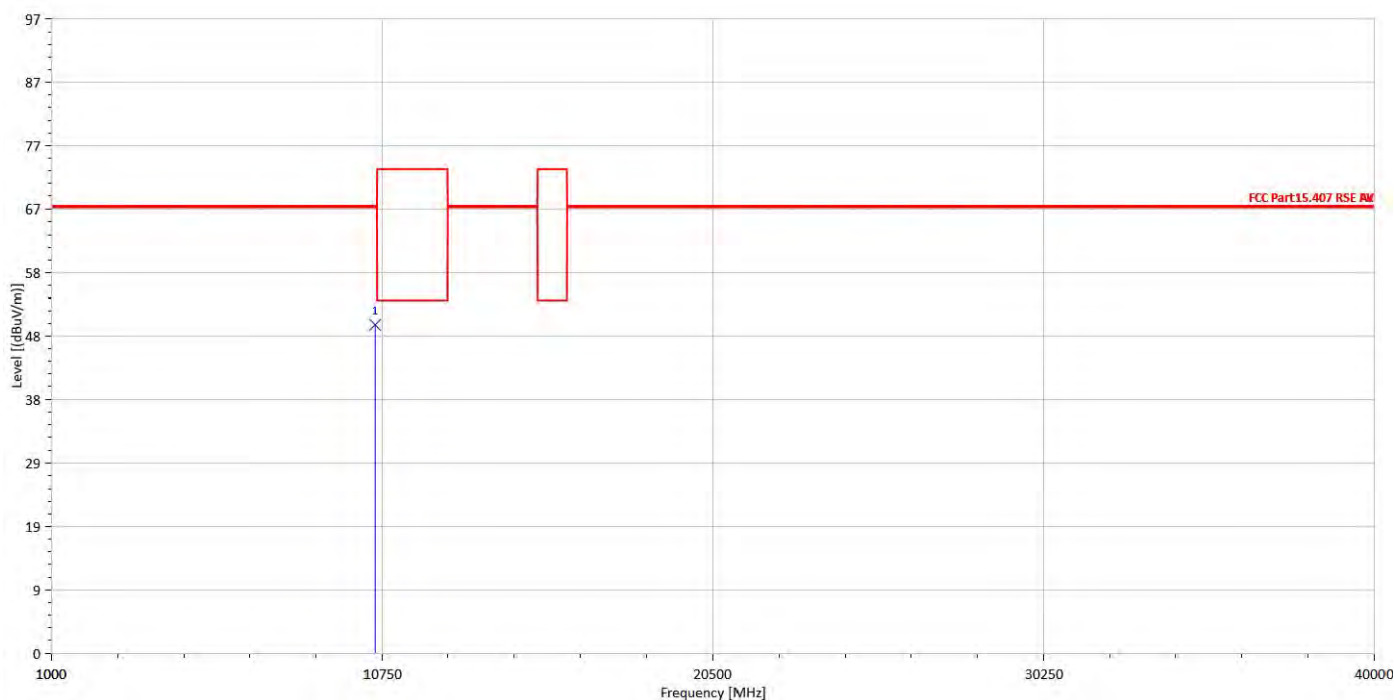
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5270 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10540.00 | H | Peak | 30.19 | 20.06 | 50.25 | 68.3 | -18.05 |

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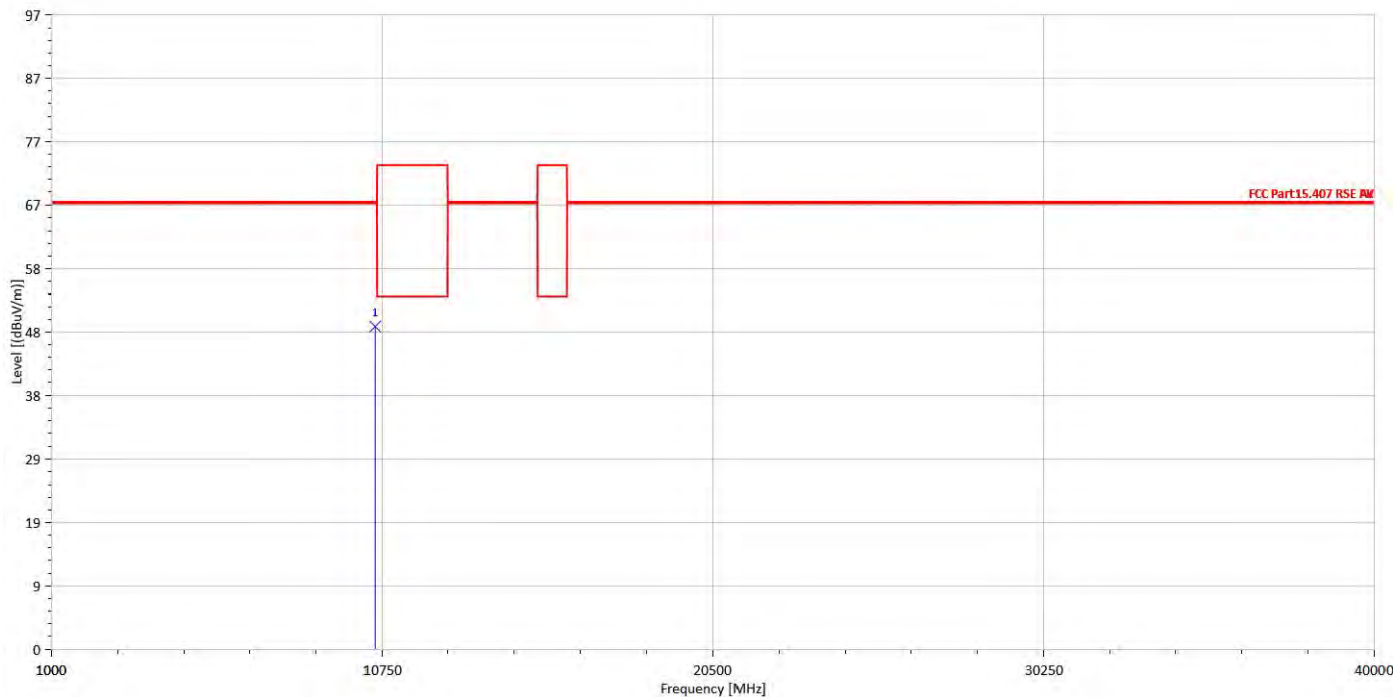
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10540.00 | H | Peak | 29.30 | 20.06 | 49.37 | 68.3 | -18.93 |

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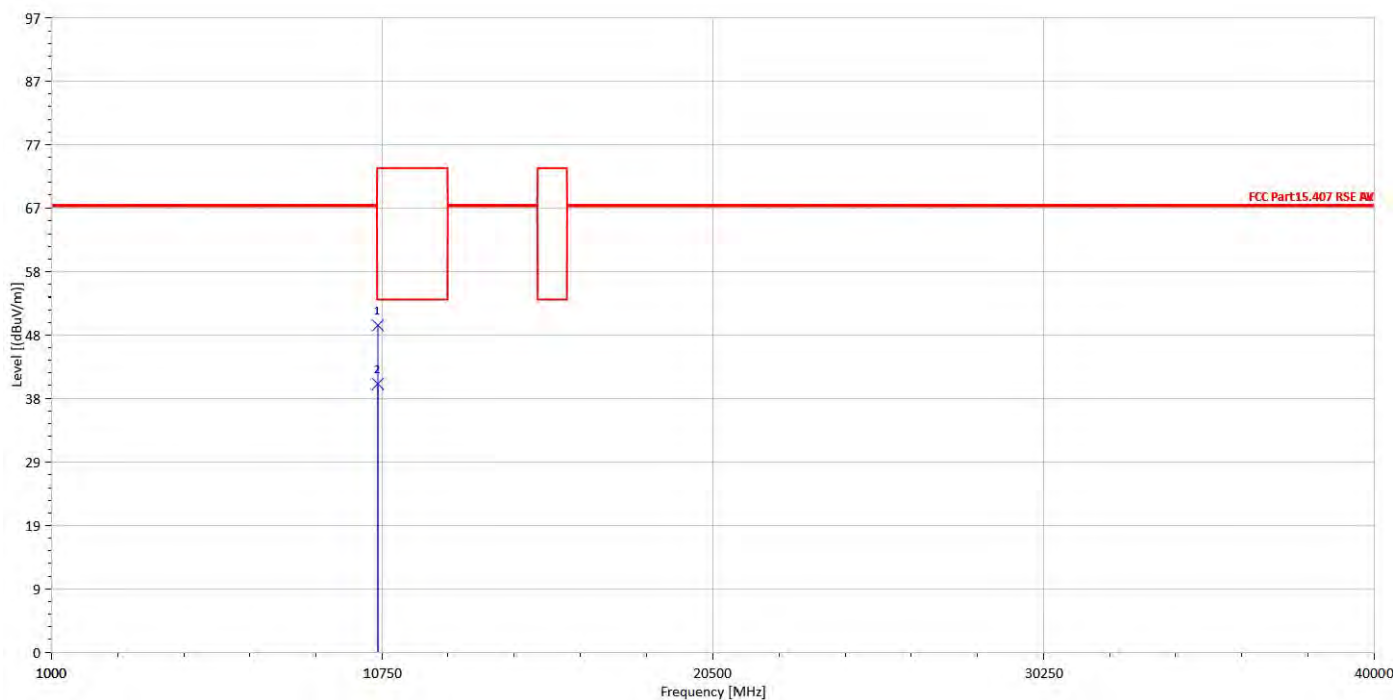
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5310 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 10620.00 | H | Peak | 29.73 | 20.29 | 50.02 | 74 | -23.98 |
| 10620.00 | H | Average | 20.70 | 20.29 | 40.99 | 54 | -13.01 |

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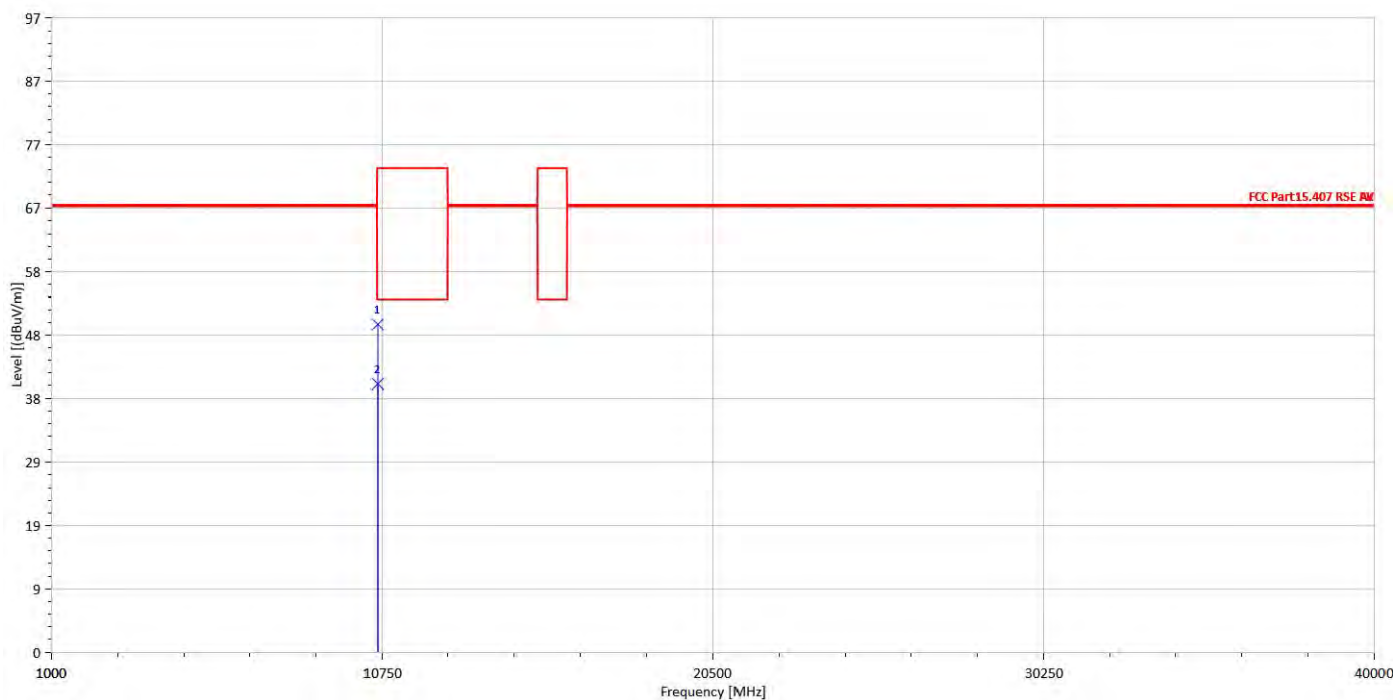
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10620.00 | H | Peak | 29.87 | 20.29 | 50.16 | 74 | -23.84 |
| 10620.00 | H | Average | 20.70 | 20.29 | 40.99 | 54 | -13.01 |

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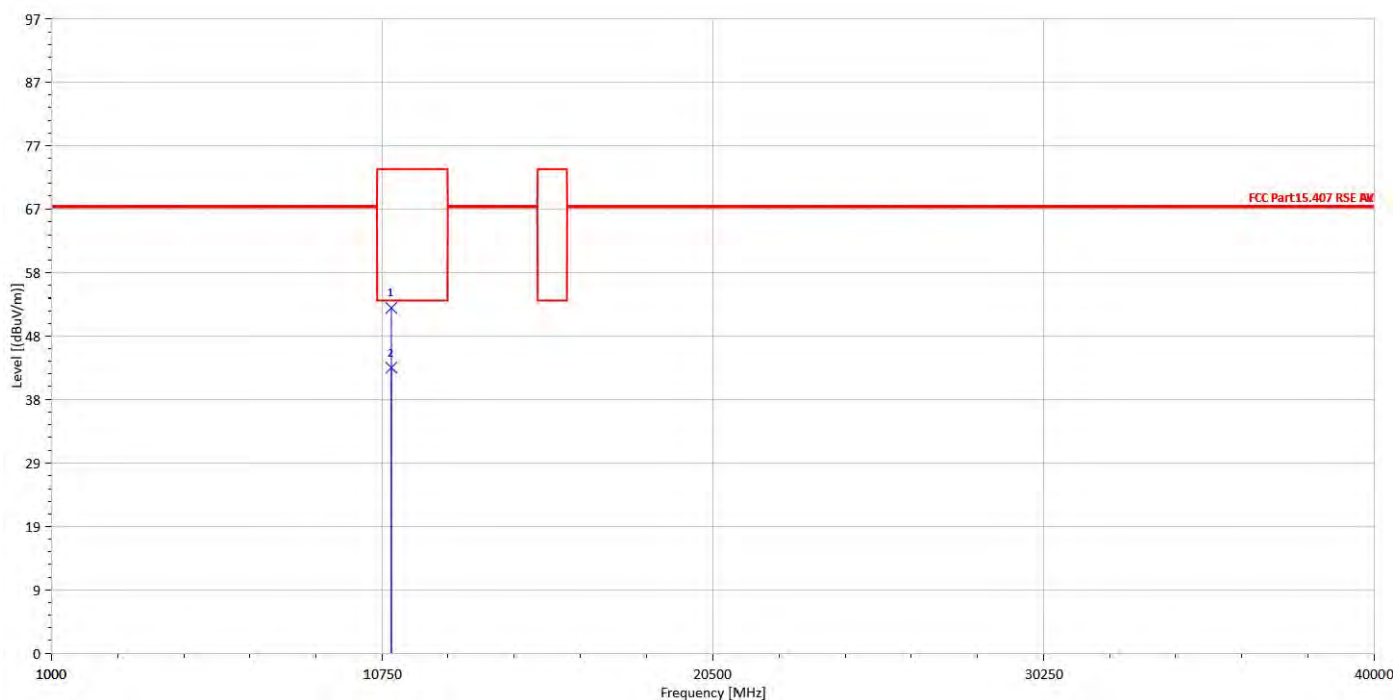
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5510 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11020.00 | H | Peak | 29.96 | 22.90 | 52.86 | 74 | -21.14 |
| 11020.00 | H | Average | 20.74 | 22.90 | 43.64 | 54 | -10.36 |

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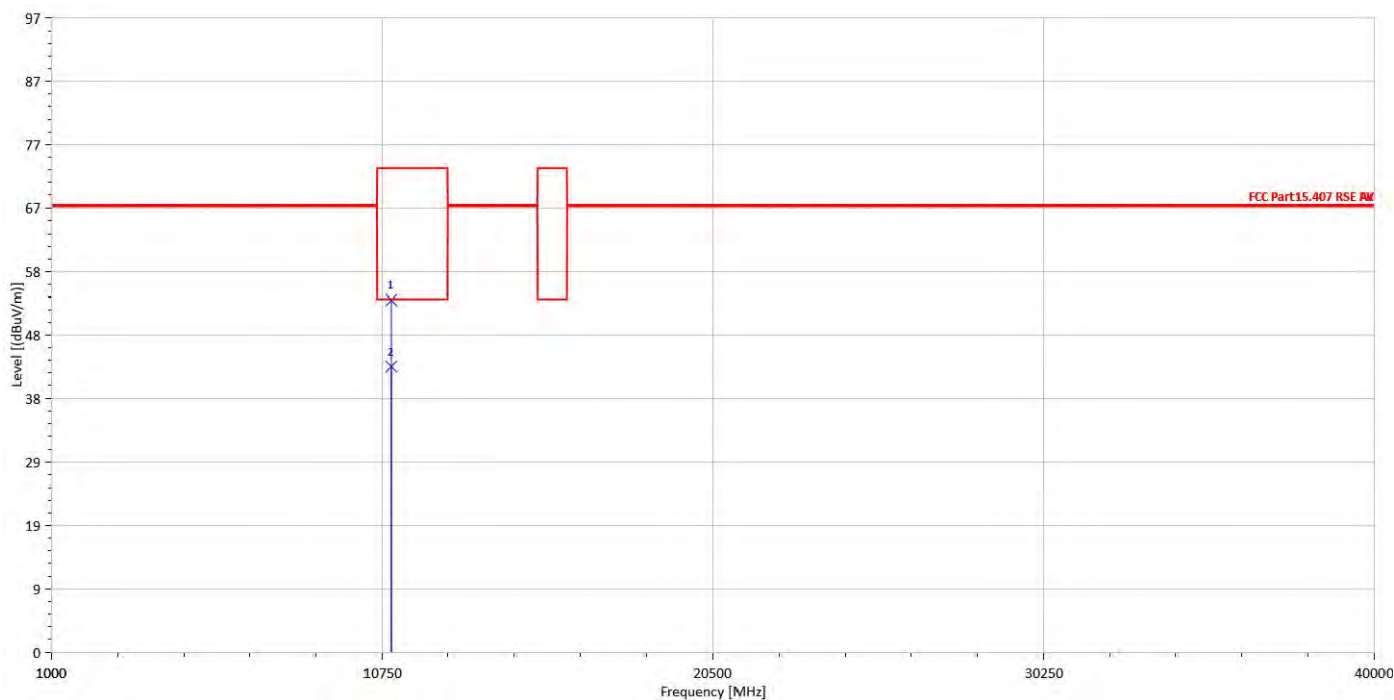
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Operation Mode : 802.11n40 Test Date : 2016/8/14
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11020.00 | H | Peak | 30.95 | 22.90 | 53.85 | 74 | -20.15 |
| 11020.00 | H | Average | 20.75 | 22.90 | 43.65 | 54 | -10.35 |

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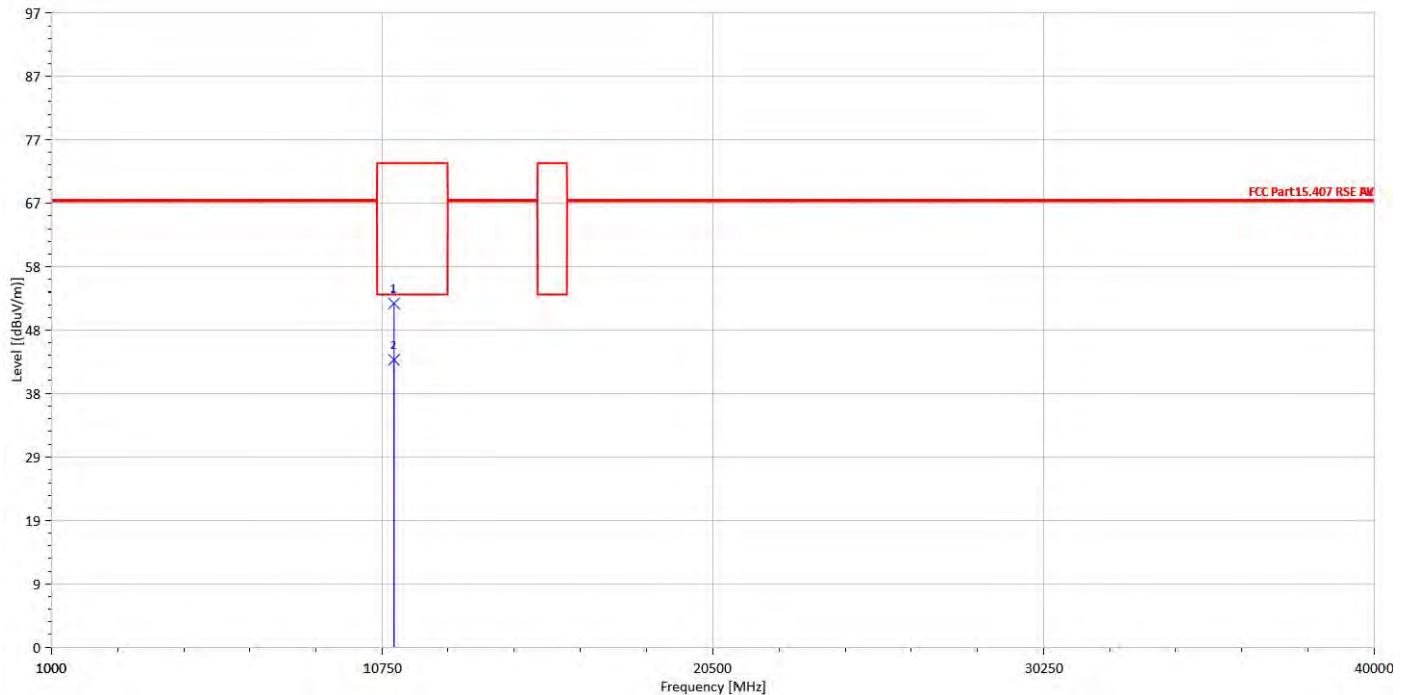
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5550 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBuV | | dBuV/m | dBuV/m | |
| 11100.00 | H | Peak | 29.47 | 23.16 | 52.64 | 74 | -21.36 |
| 11100.00 | H | Average | 20.75 | 23.16 | 43.91 | 54 | -10.09 |

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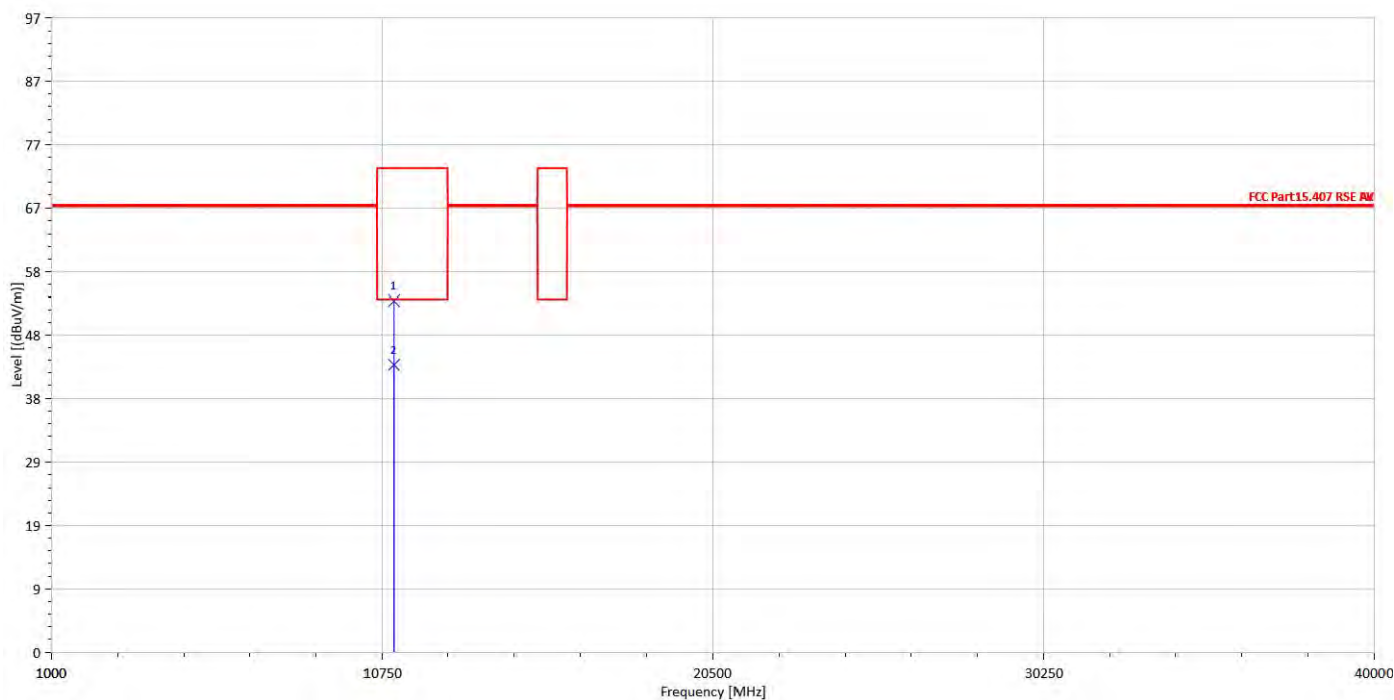
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5550 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11100.00 | H | Peak | 30.58 | 23.16 | 53.74 | 74 | -20.26 |
| 11100.00 | H | Average | 20.75 | 23.16 | 43.91 | 54 | -10.09 |

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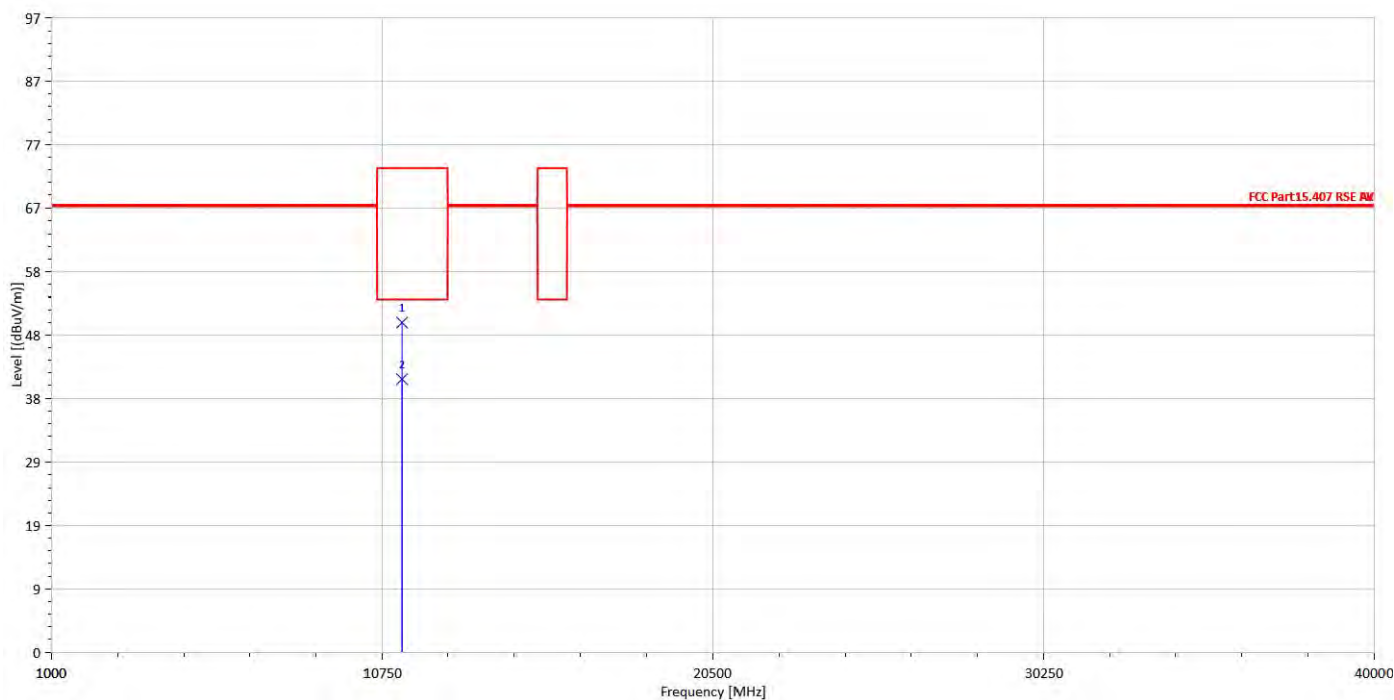
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5670 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11340.00 | H | Peak | 29.49 | 20.97 | 50.45 | 74 | -23.55 |
| 11340.00 | H | Average | 20.74 | 20.97 | 41.71 | 54 | -12.29 |

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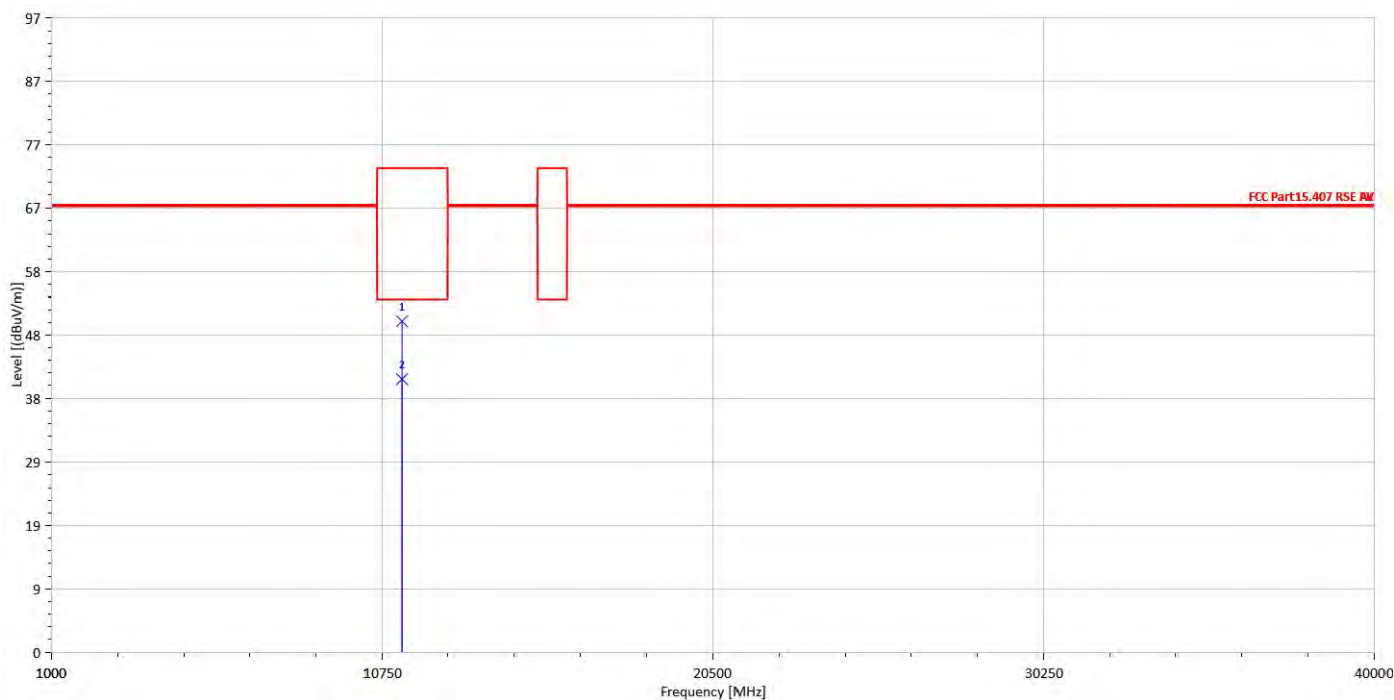
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5670 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11340.00 | H | Peak | 29.69 | 20.97 | 50.65 | 74 | -23.35 |
| 11340.00 | H | Average | 20.74 | 20.97 | 41.71 | 54 | -12.29 |

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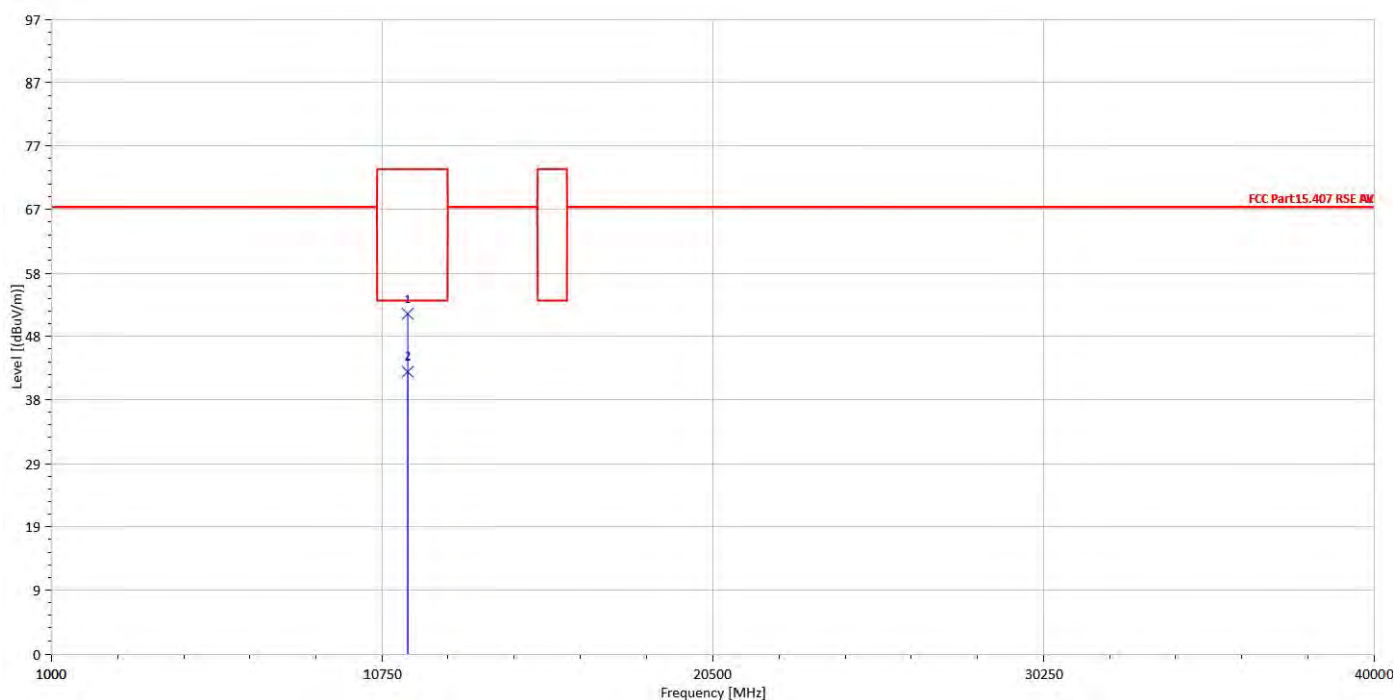
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @ 3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11510.00 | H | Peak | 29.79 | 22.17 | 51.96 | 74 | -22.04 |
| 11510.00 | H | Average | 20.99 | 22.17 | 43.16 | 54 | -10.84 |

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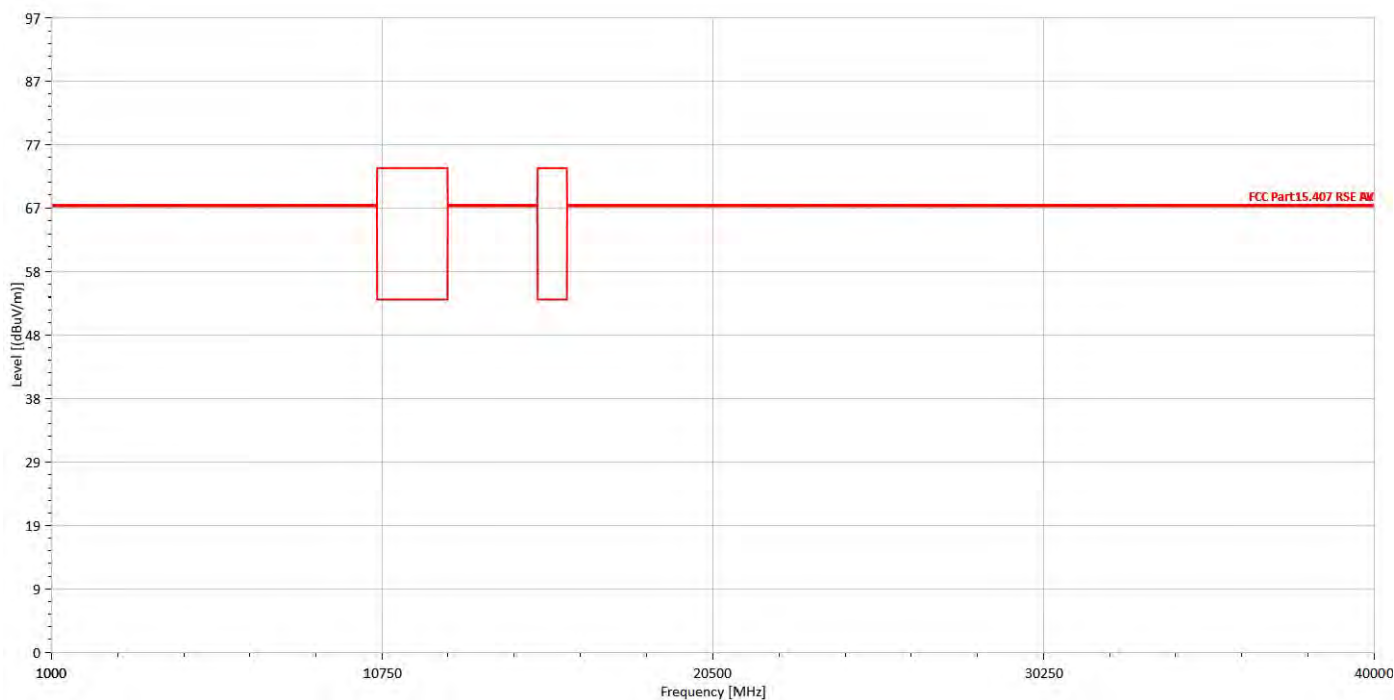
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |

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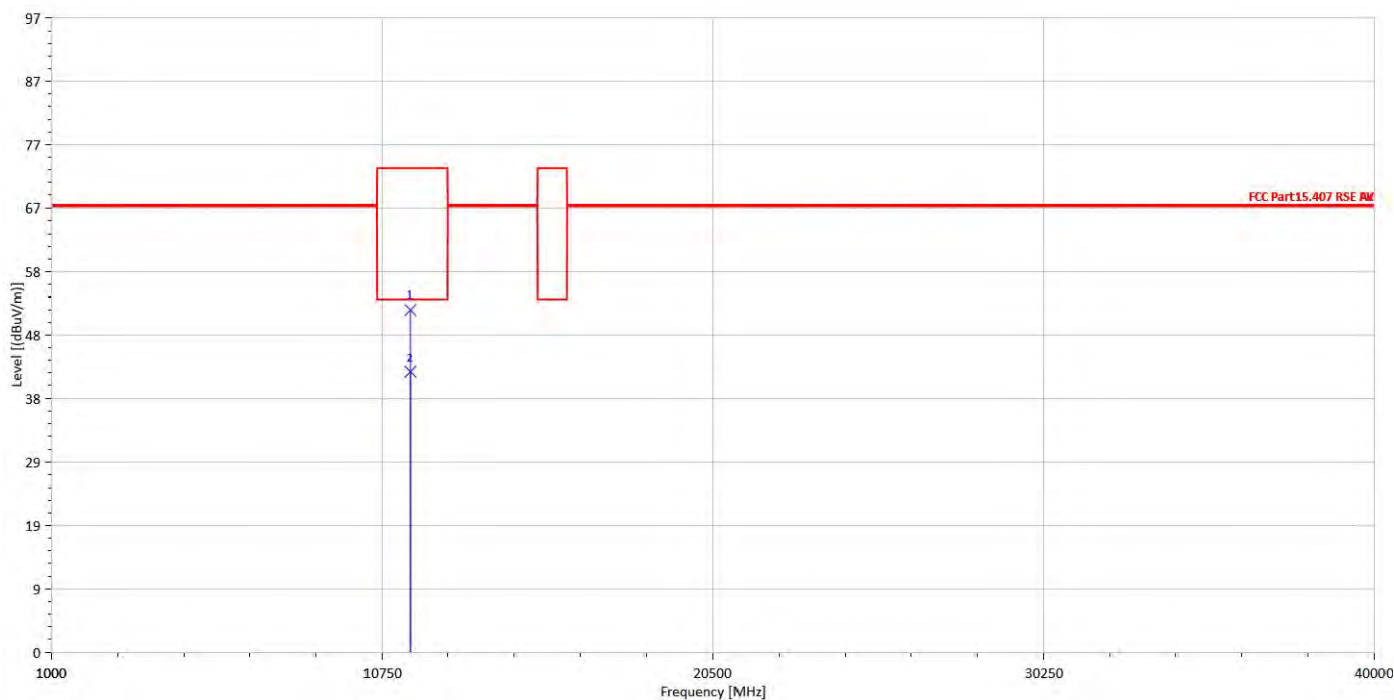
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11590.00 | H | Peak | 30.52 | 21.84 | 52.37 | 74 | -21.63 |
| 11590.00 | H | Average | 21.01 | 21.84 | 42.85 | 54 | -11.15 |

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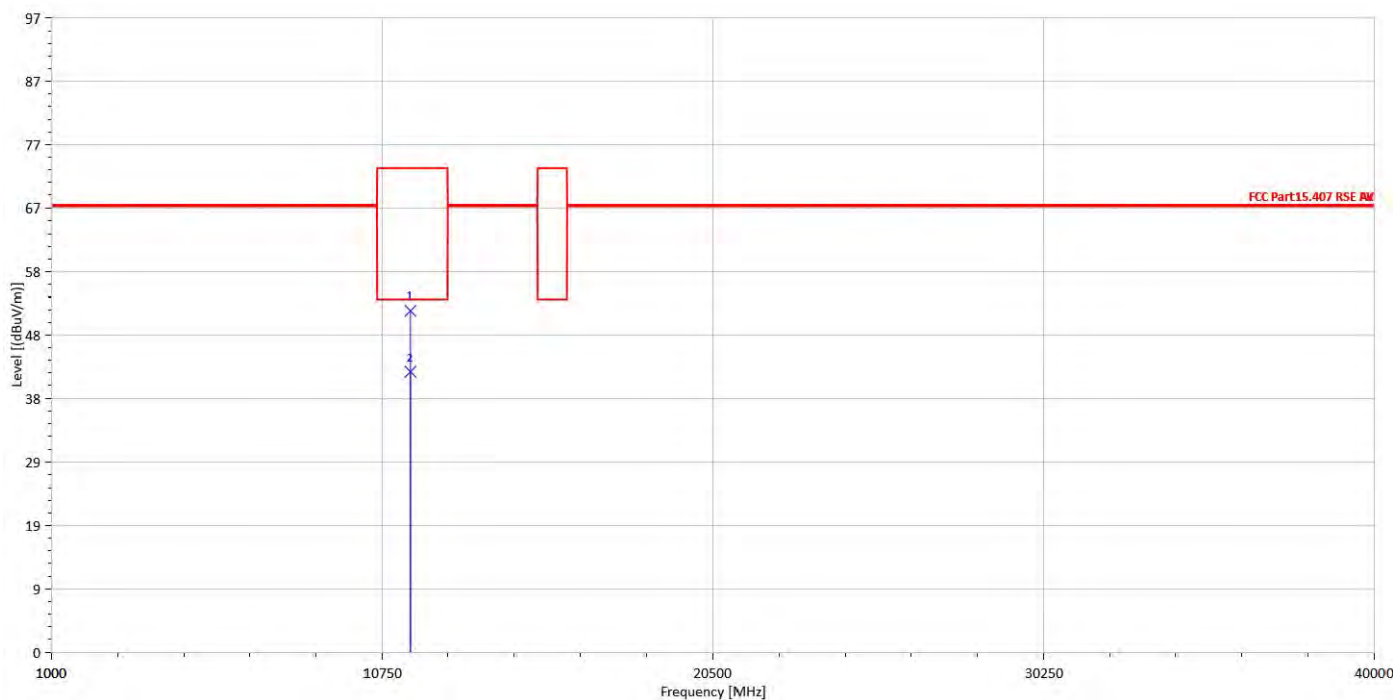
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @ 3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 11590.00 | H | Peak | 30.40 | 21.84 | 52.25 | 74 | -21.75 |
| 11590.00 | H | Average | 21.01 | 21.84 | 42.85 | 54 | -11.15 |

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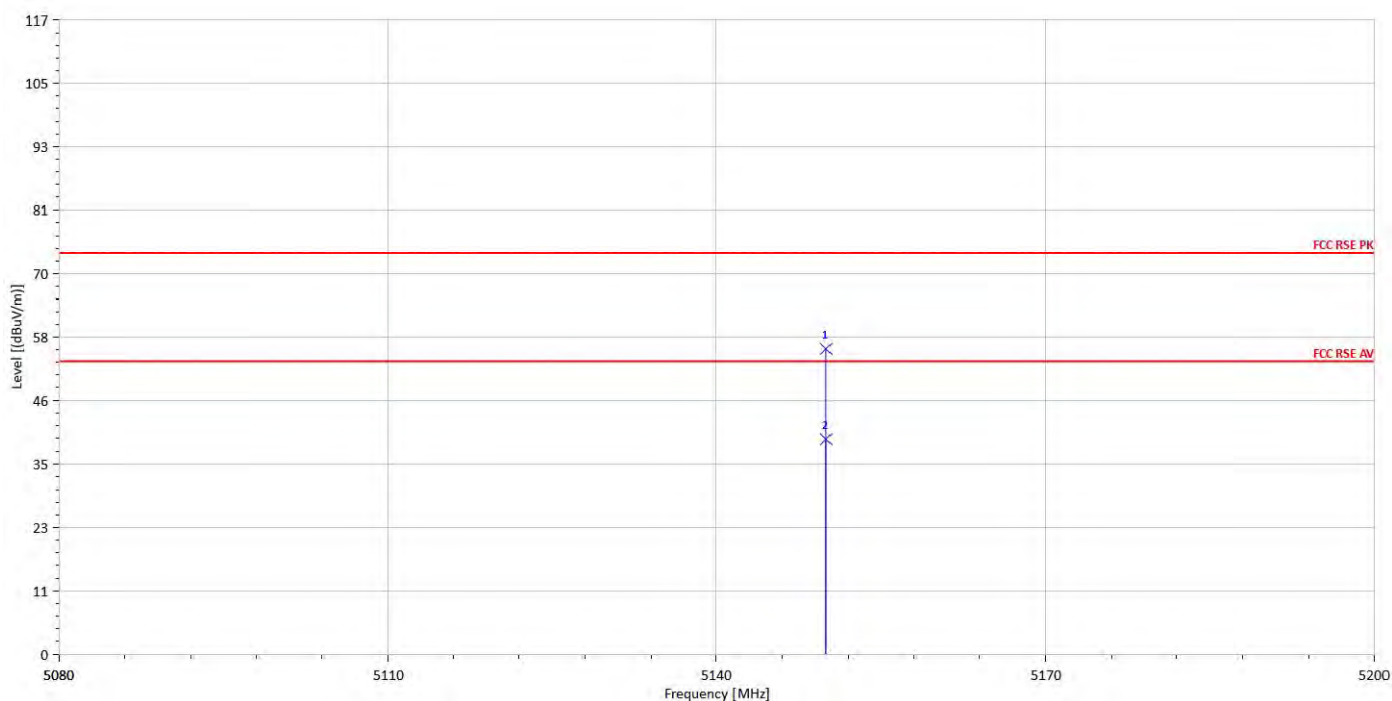
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Band edge falling to restricted band

802.11a mode

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | E | Peak | 48.13 | 8.19 | 56.33 | 74 | -17.67 |
| 5150.00 | E | Average | 31.49 | 8.19 | 39.68 | 54 | -14.32 |

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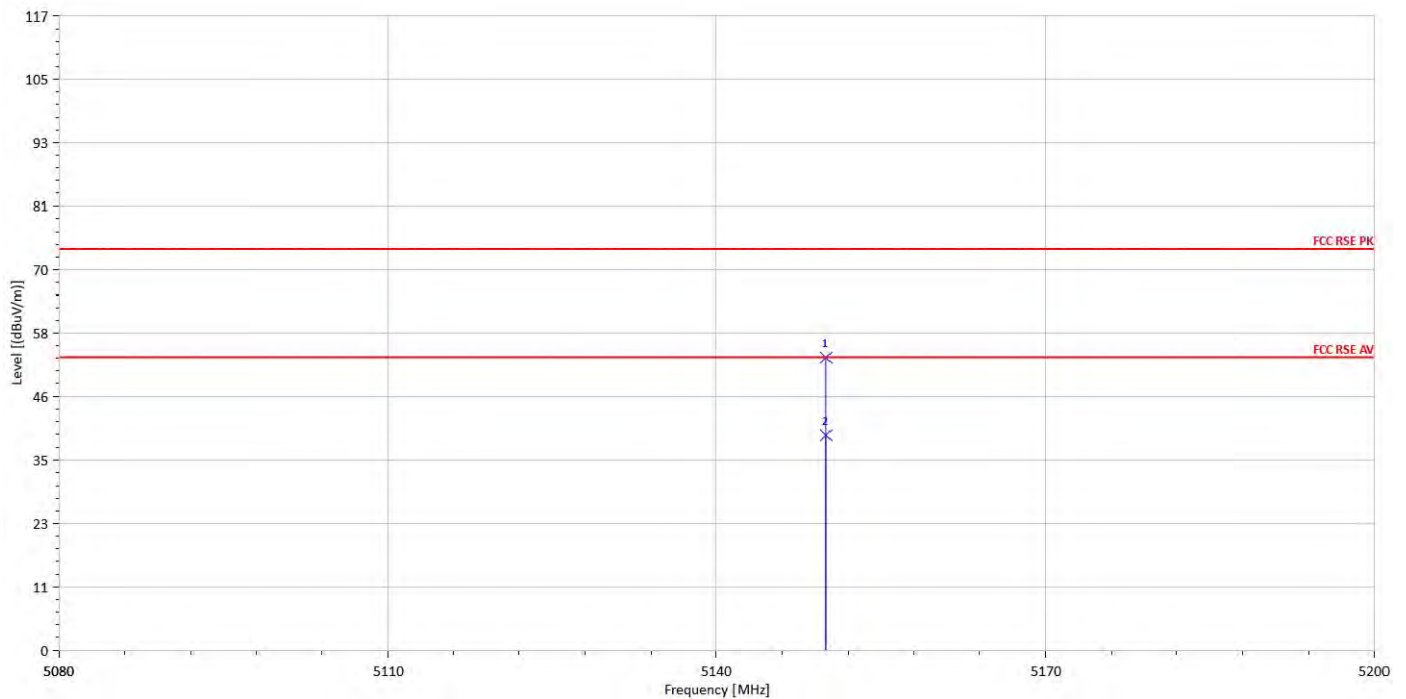
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00 | H | Peak | 45.74 | 8.19 | 53.94 | 74 | -20.06 |
| 5150.00 | H | Average | 31.49 | 8.19 | 39.68 | 54 | -14.32 |

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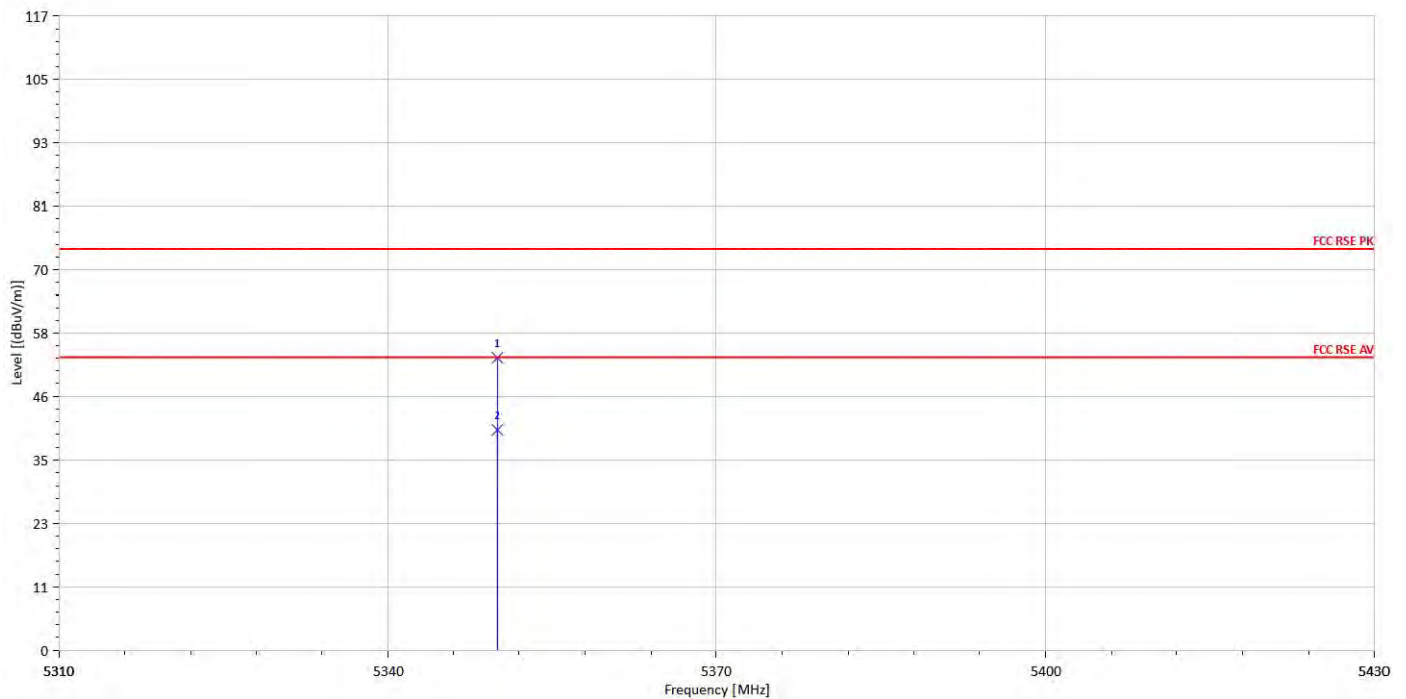
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5320 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | E | Peak | 44.95 | 8.96 | 53.91 | 74 | -20.09 |
| 5350.00 | E | Average | 31.69 | 8.96 | 40.65 | 54 | -13.35 |

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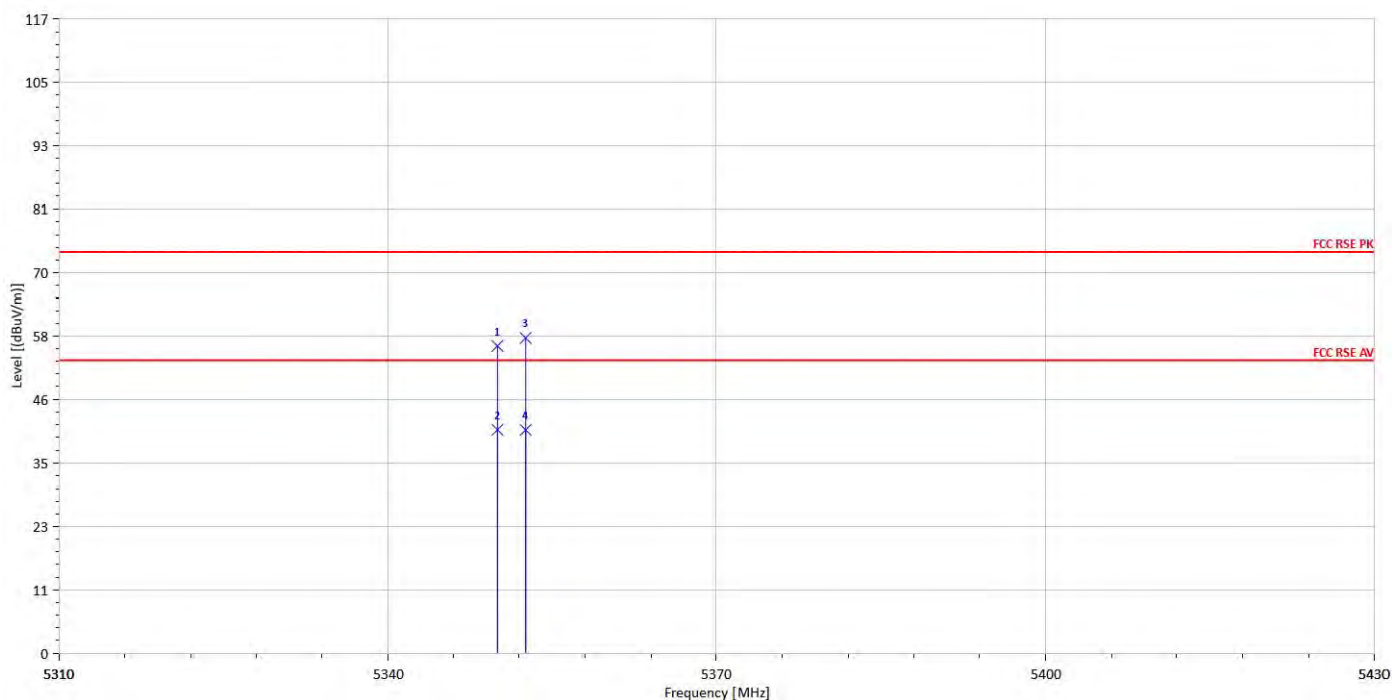
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5320 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Peak | 47.72 | 8.96 | 56.69 | 74 | -17.31 |
| 5350.00 | E | Average | 32.27 | 8.96 | 41.23 | 54 | -12.77 |
| 5352.60 | S | Peak | 49.18 | 8.99 | 58.17 | 74 | -15.83 |
| 5352.60 | S | Average | 32.22 | 8.99 | 41.21 | 54 | -12.79 |

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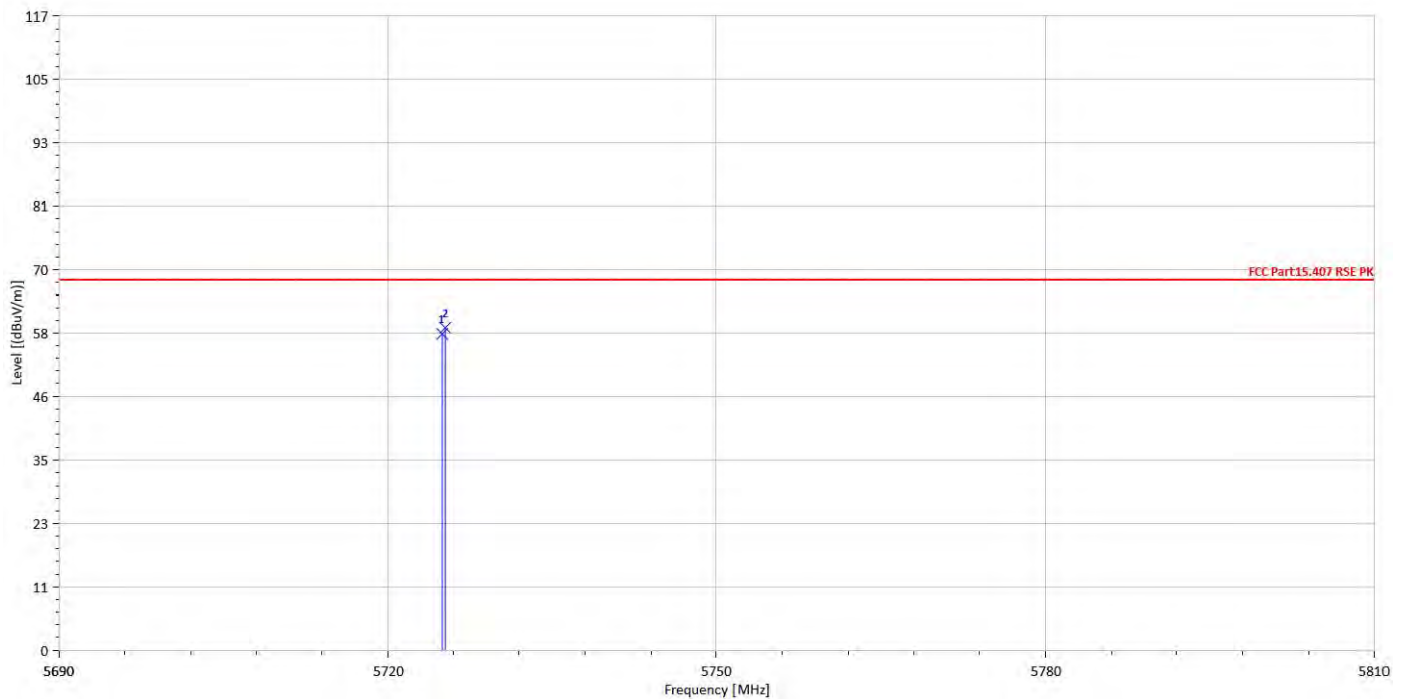
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5447.84 | S | Peak | 45.76 | 9.02 | 54.79 | 74 | -19.21 |
| 5447.84 | S | Average | 33.55 | 9.02 | 42.57 | 54 | -11.43 |
| 5460.00 | E | Peak | 43.52 | 8.88 | 52.41 | 74 | -21.59 |
| 5460.00 | E | Average | 31.92 | 8.88 | 40.80 | 54 | -13.20 |

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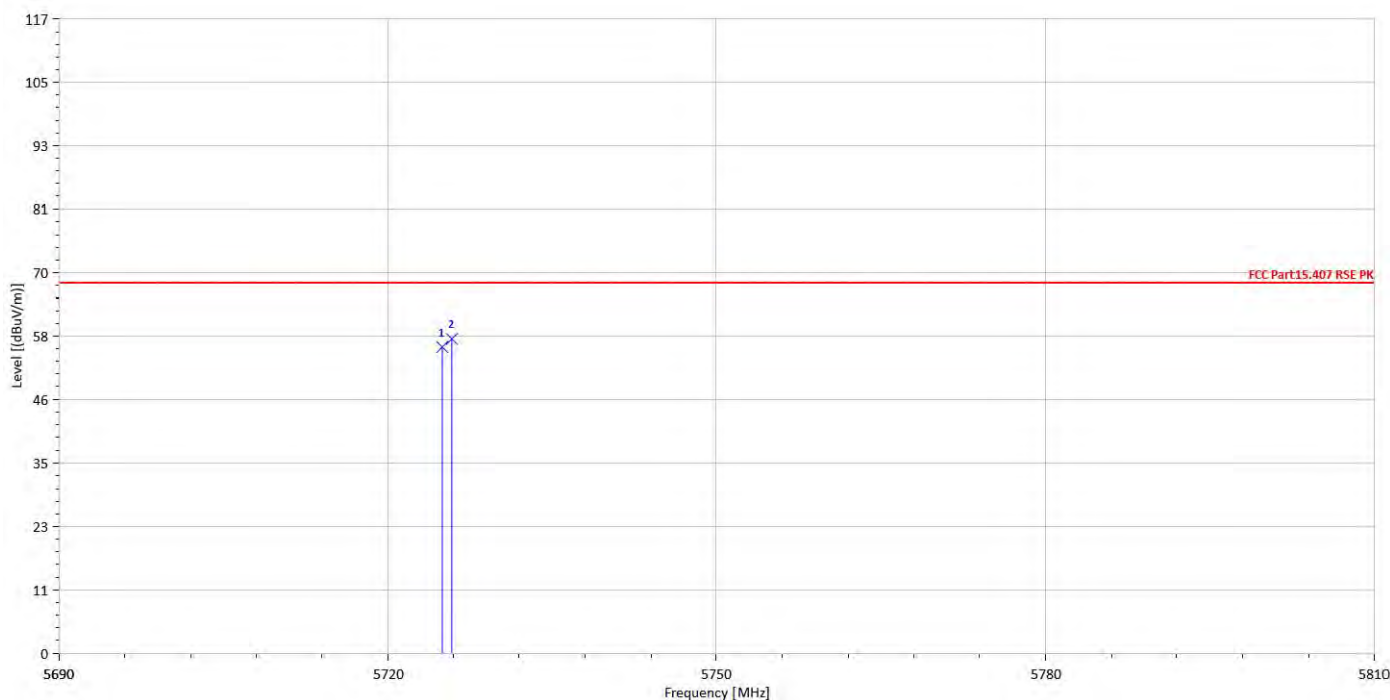
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5447.60 | S | Peak | 44.56 | 9.03 | 53.59 | 74 | -20.41 |
| 5447.60 | S | Average | 33.03 | 9.03 | 42.06 | 54 | -11.94 |
| 5460.00 | E | Peak | 42.52 | 8.88 | 51.40 | 74 | -22.60 |
| 5460.00 | E | Average | 31.55 | 8.88 | 40.43 | 54 | -13.57 |

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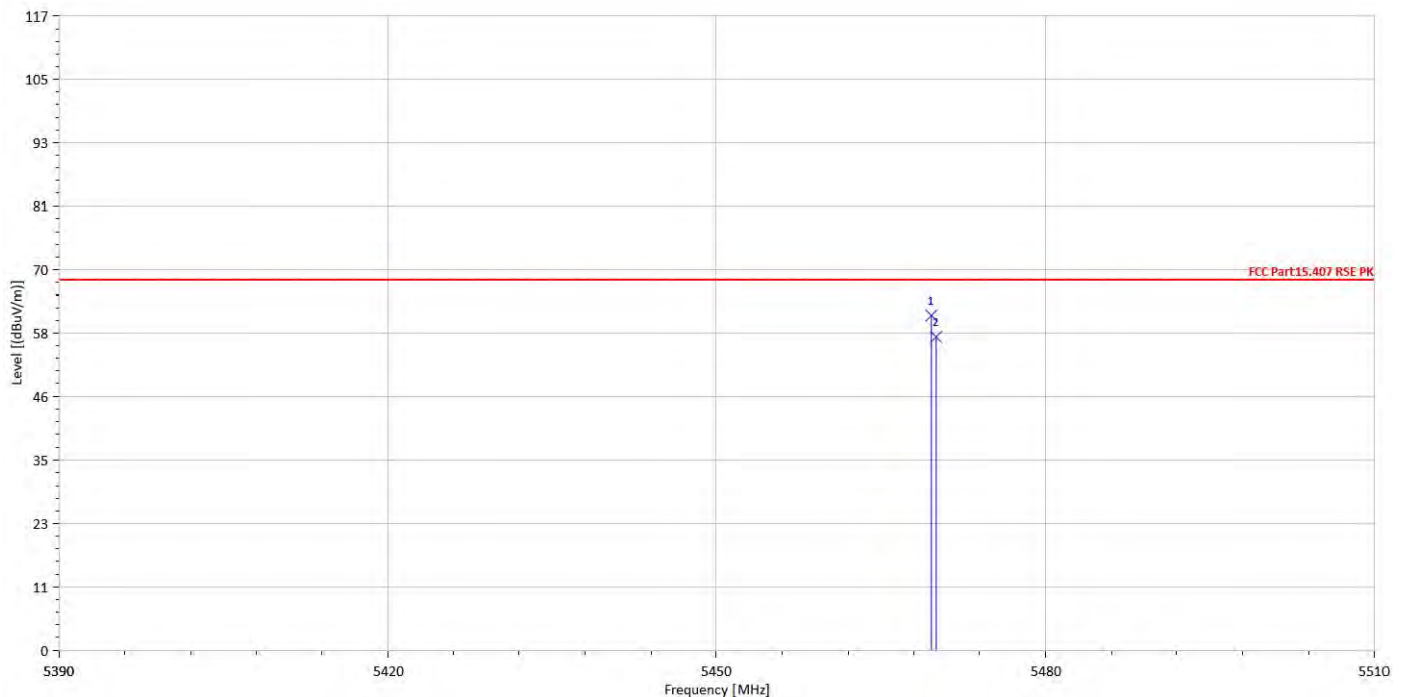
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|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.56 | S | Peak | 52.99 | 8.79 | 61.78 | 68.3 | -6.52 |
| 5470.00 | E | Peak | 49.02 | 8.79 | 57.81 | 68.3 | -10.49 |

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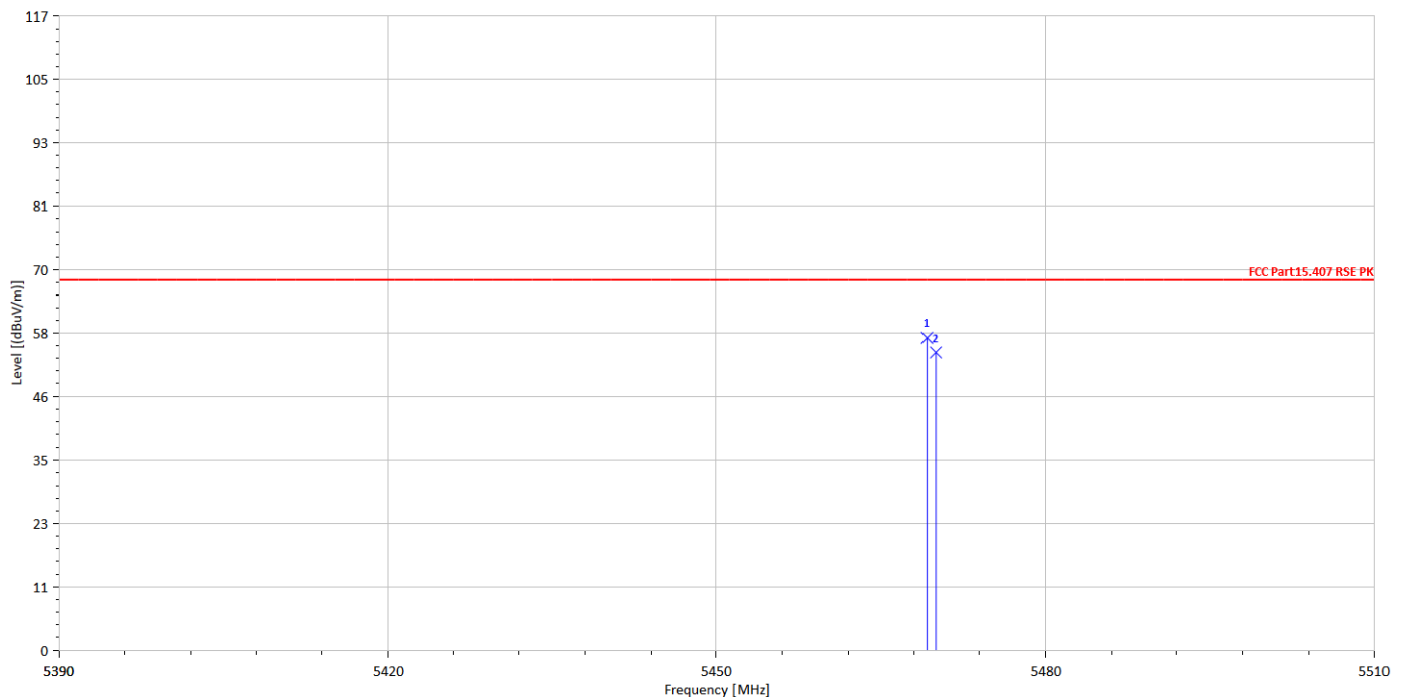
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|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.20 | S | Peak | 48.82 | 8.80 | 57.62 | 68.3 | -10.68 |
| 5470.00 | E | Peak | 46.12 | 8.79 | 54.91 | 68.3 | -13.39 |

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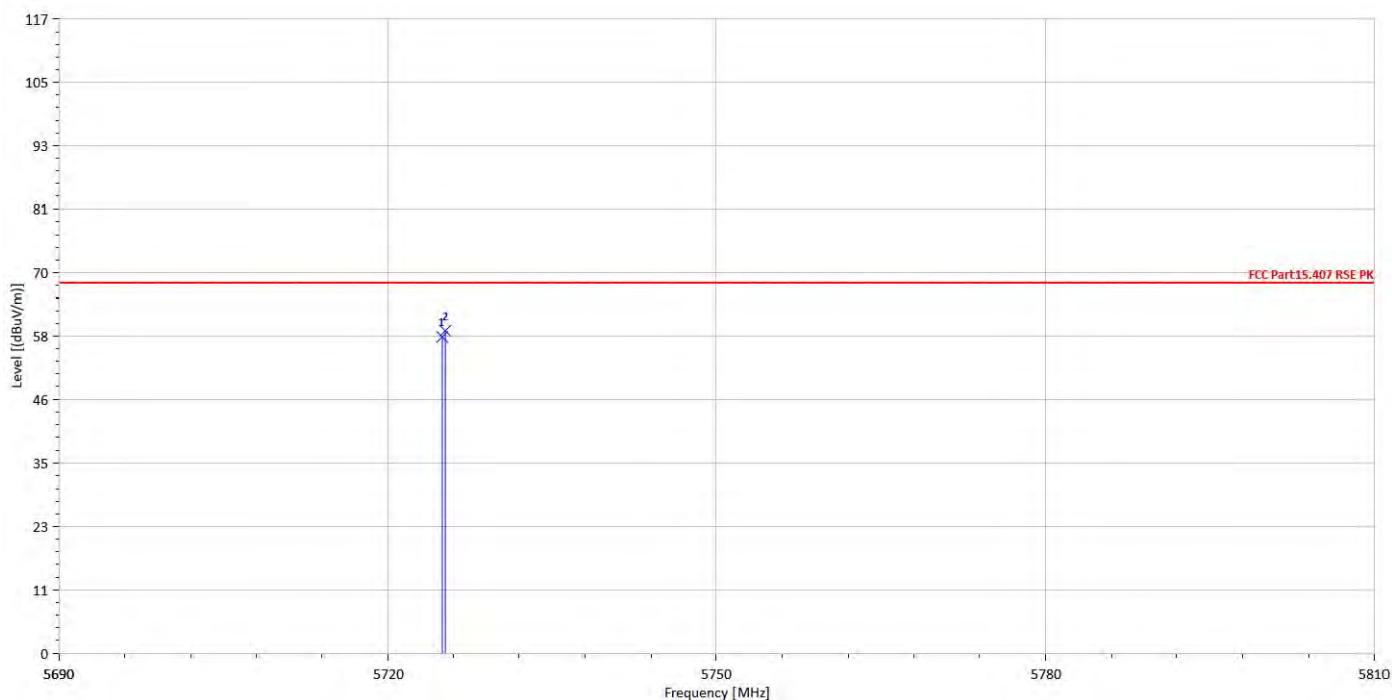
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5700 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | E | Peak | 49.06 | 9.30 | 58.36 | 68.3 | -9.94 |
| 5725.28 | S | Peak | 50.20 | 9.30 | 59.50 | 68.3 | -8.80 |

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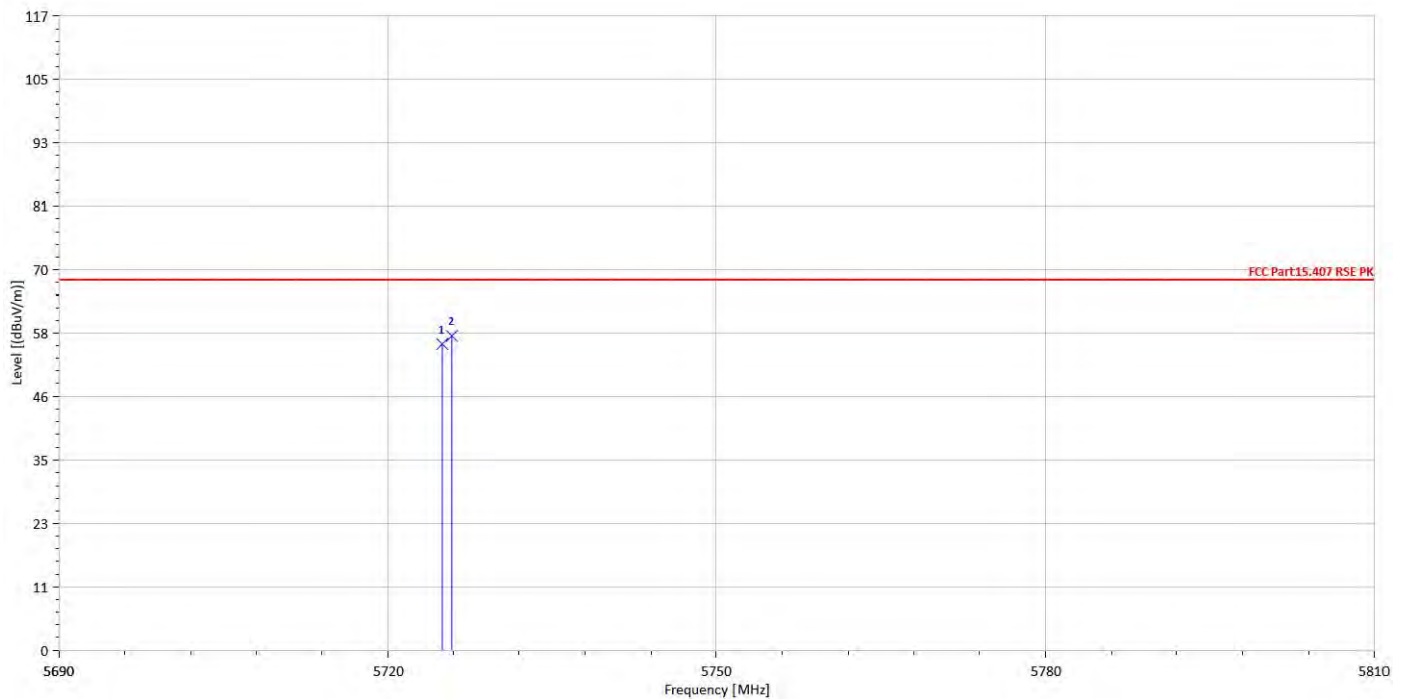
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5700 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | E | Peak | 47.19 | 9.30 | 56.49 | 68.3 | -11.81 |
| 5725.88 | S | Peak | 48.69 | 9.30 | 57.99 | 68.3 | -10.31 |

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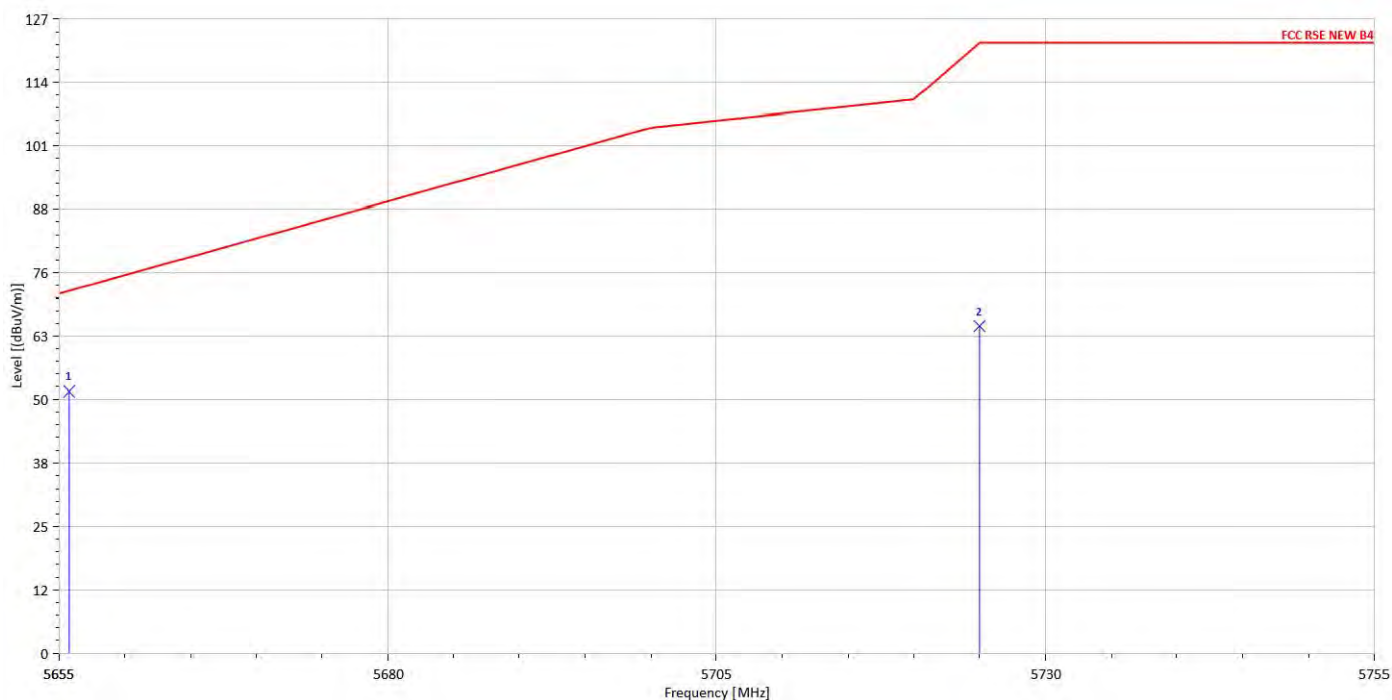
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Operation Mode : 802.11a Test Date : 2016/8/11
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|----------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 5655.80 | S | Peak | 43.17 | 9.27 | 52.44 | 72.52186 | -20.09 |
| 5725.00 | E | Peak | 56.22 | 9.30 | 65.52 | 122.23 | -56.71 |

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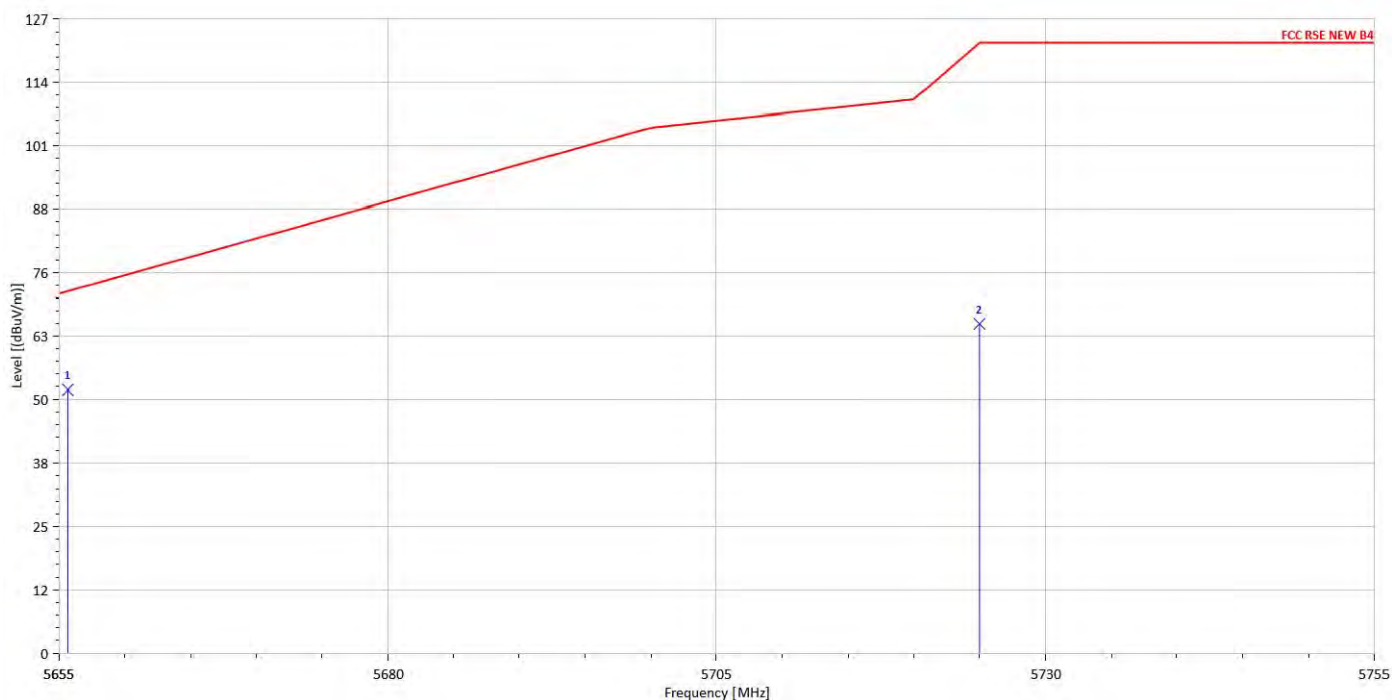
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|----------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5655.70 | S | Peak | 43.47 | 9.27 | 52.74 | 72.44815 | -19.71 |
| 5725.00 | E | Peak | 56.67 | 9.30 | 65.98 | 122.23 | -56.25 |

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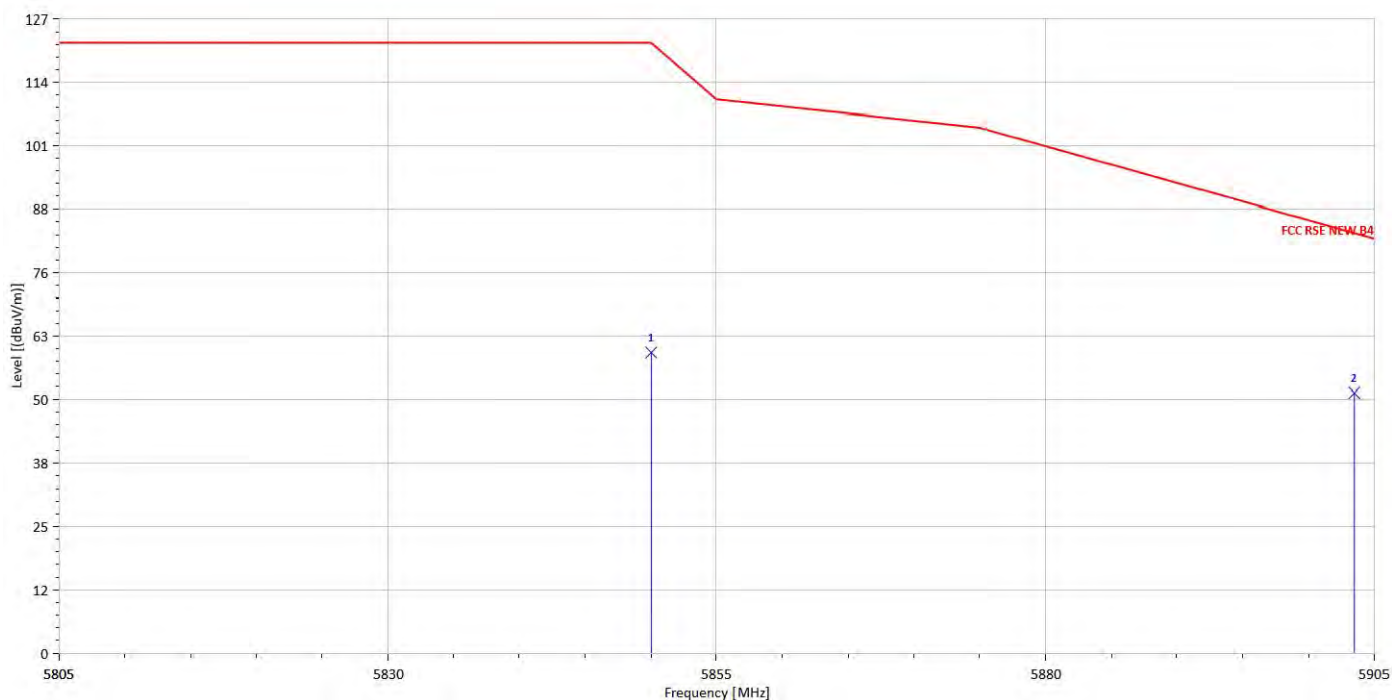
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Operation Mode : 802.11a Test Date : 2016/8/11
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5850.00 | E | Peak | 50.71 | 9.49 | 60.20 | 122.23 | -62.03 |
| 5903.50 | S | Peak | 42.38 | 9.76 | 52.15 | 84.14001 | -31.99 |

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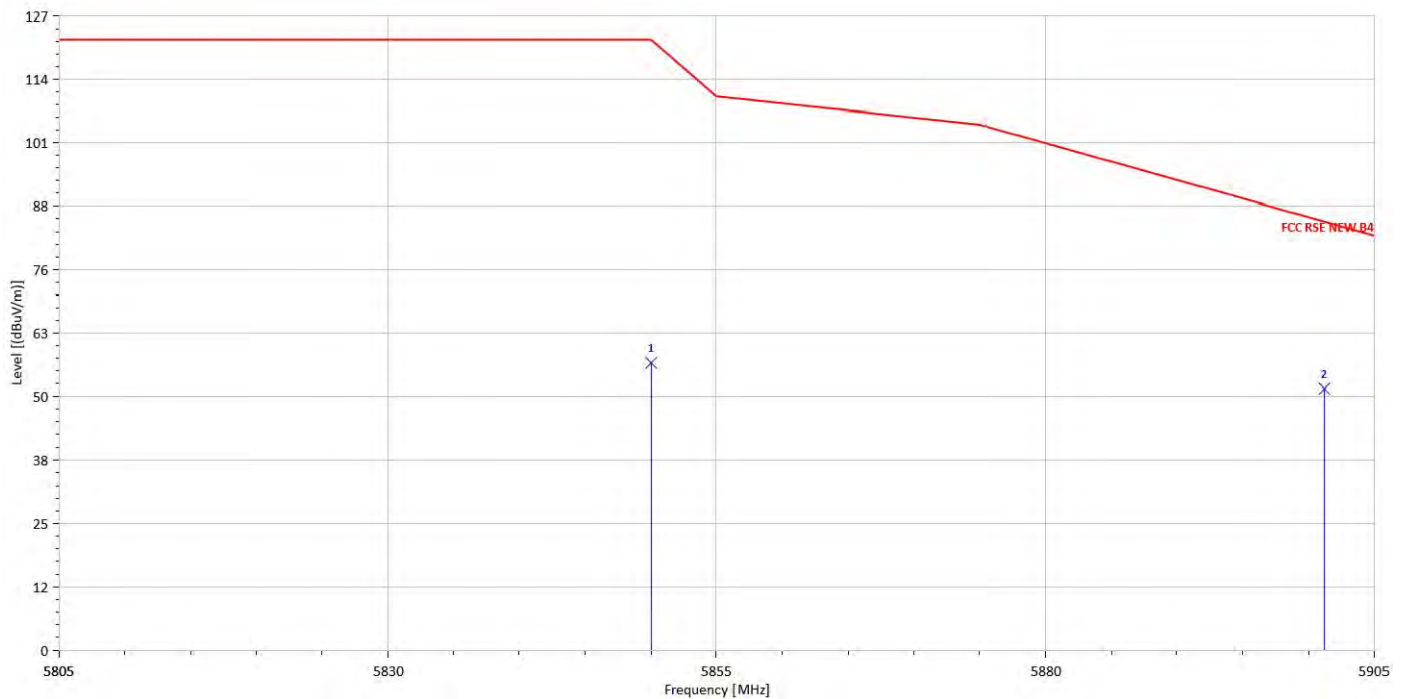
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/11 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|----------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5850.00 | E | Peak | 48.01 | 9.49 | 57.50 | 122.23 | -64.73 |
| 5901.20 | S | Peak | 42.64 | 9.74 | 52.38 | 85.84186 | -33.47 |

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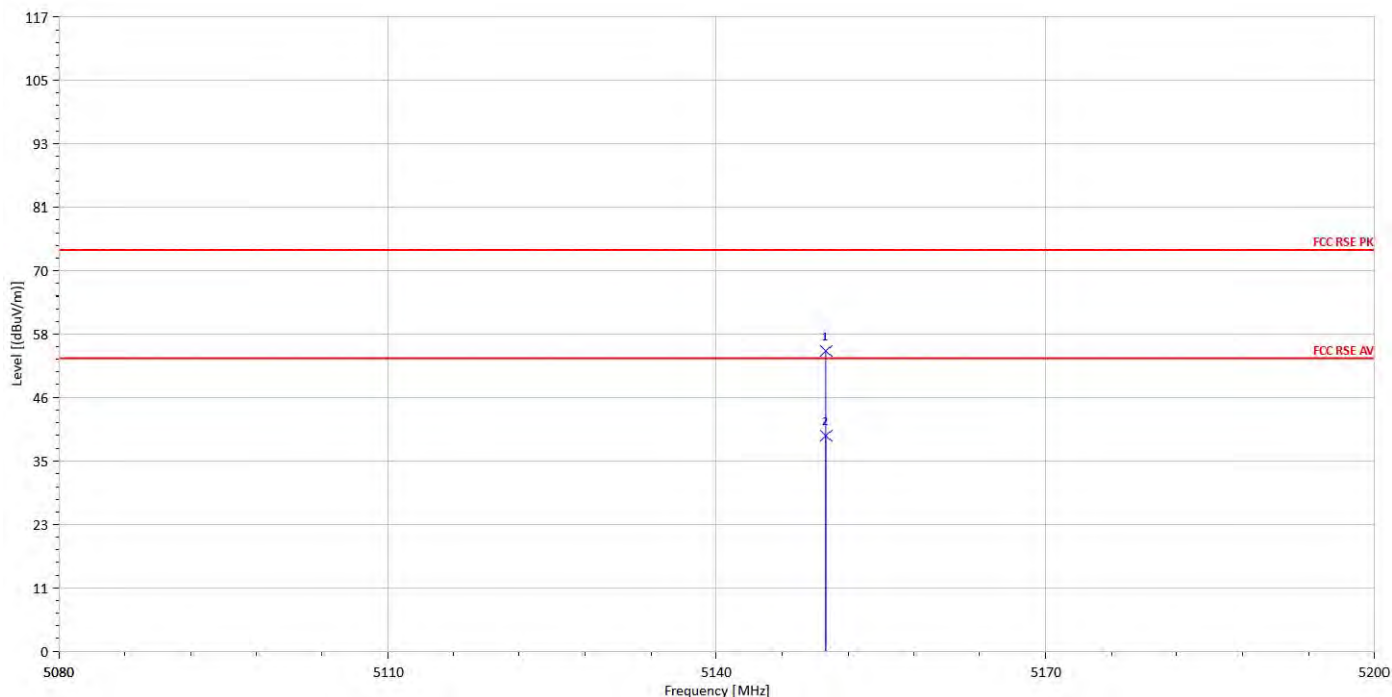
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802.11n20 HT mode

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5150.00 | E | Peak | 47.18 | 8.19 | 55.37 | 74 | -18.63 |
| 5150.00 | E | Average | 31.57 | 8.19 | 39.76 | 54 | -14.24 |

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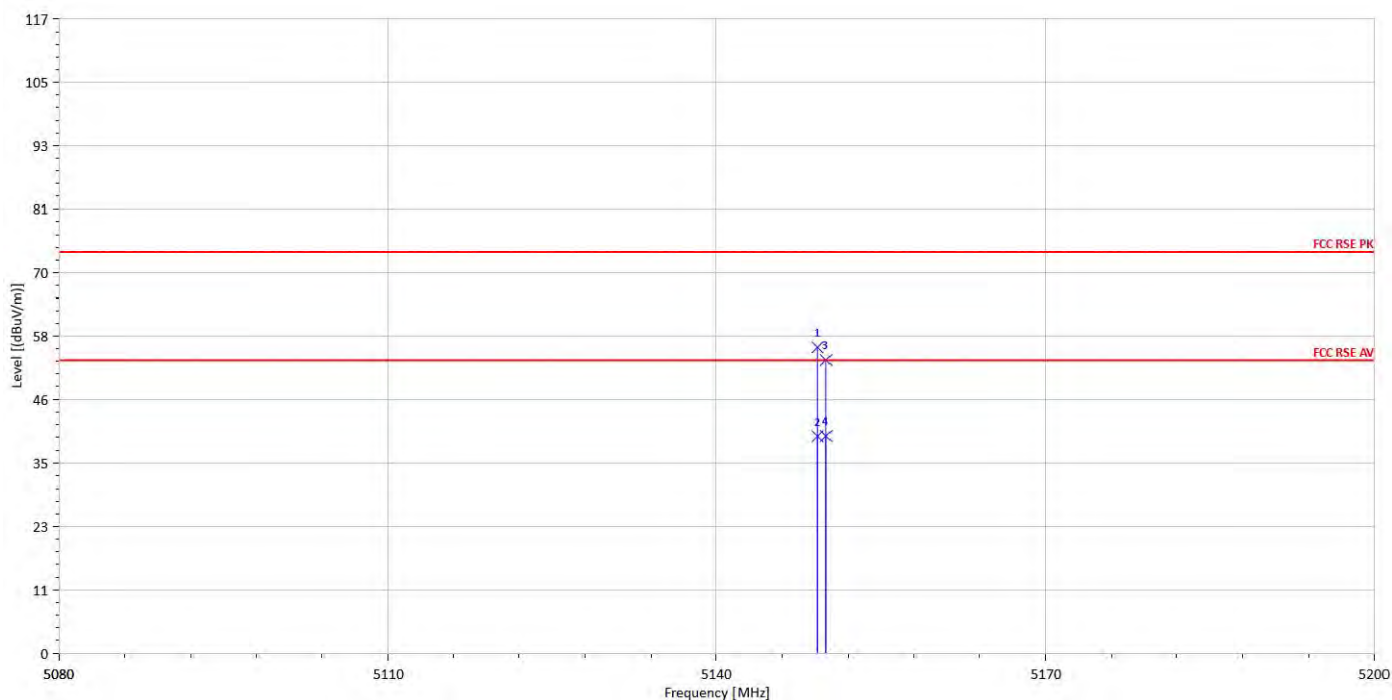
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5180 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5149.24 | S | Peak | 48.23 | 8.19 | 56.42 | 74 | -17.58 |
| 5149.24 | S | Average | 31.84 | 8.19 | 40.03 | 54 | -13.97 |
| 5150.00 | E | Peak | 45.87 | 8.19 | 54.06 | 74 | -19.94 |
| 5150.00 | E | Average | 31.88 | 8.19 | 40.07 | 54 | -13.93 |

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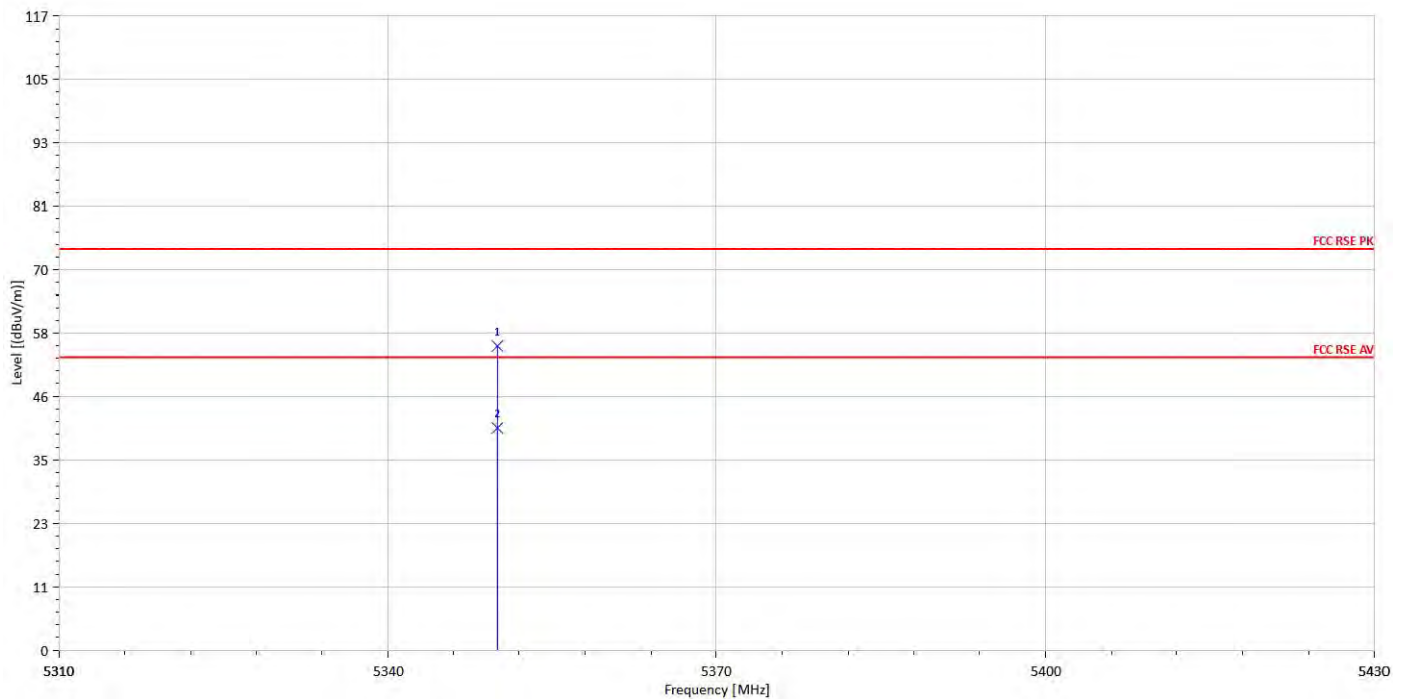
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5320 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | E | Peak | 47.16 | 8.96 | 56.12 | 74 | -17.88 |
| 5350.00 | E | Average | 32.05 | 8.96 | 41.01 | 54 | -12.99 |

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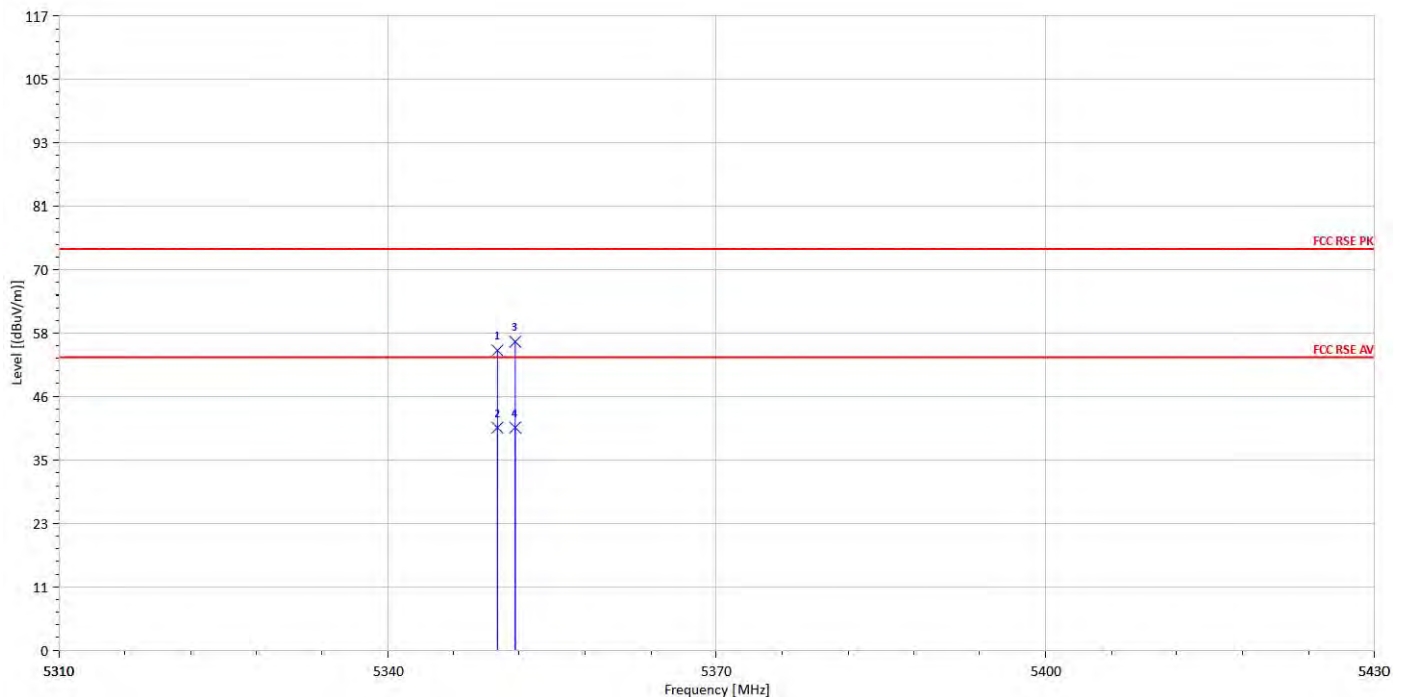
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5320 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | E | Peak | 46.31 | 8.96 | 55.28 | 74 | -18.72 |
| 5350.00 | E | Average | 32.13 | 8.96 | 41.09 | 54 | -12.91 |
| 5351.64 | S | Peak | 47.92 | 8.99 | 56.91 | 74 | -17.09 |
| 5351.64 | S | Average | 32.11 | 8.99 | 41.10 | 54 | -12.90 |

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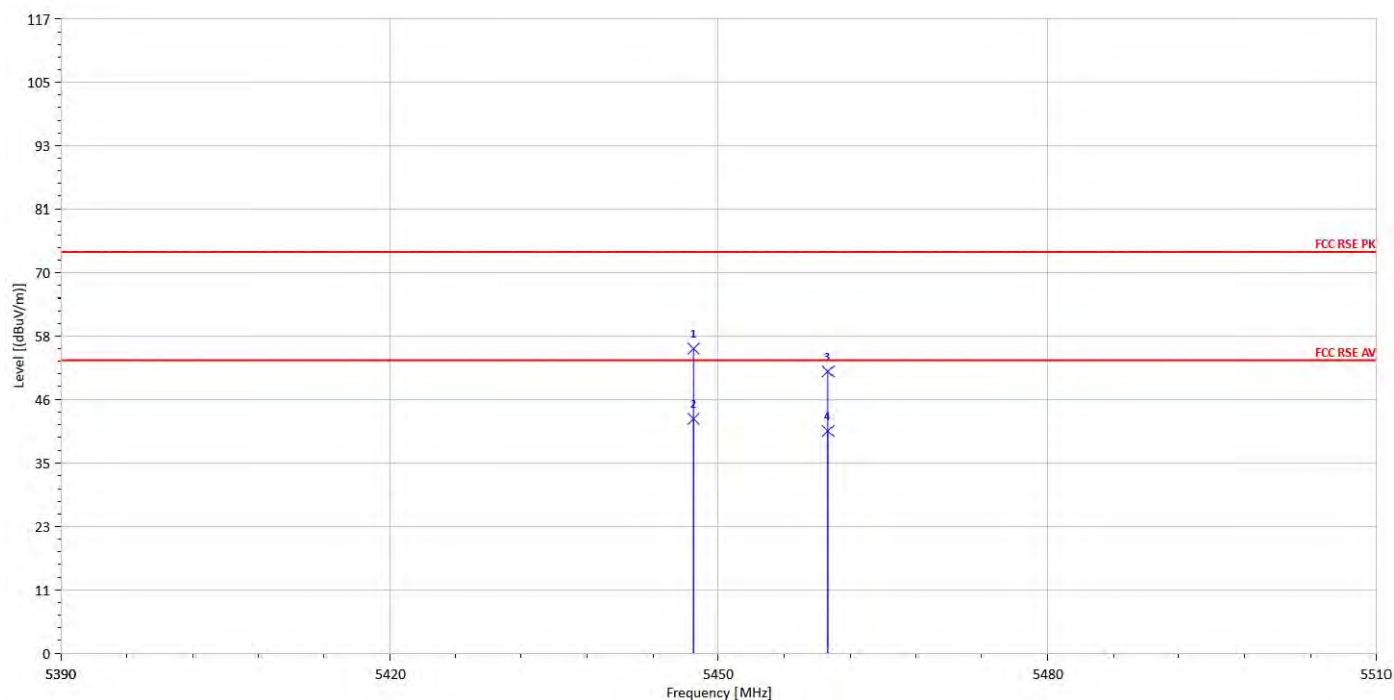
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5447.72 | S | Peak | 47.15 | 9.03 | 56.17 | 74 | -17.83 |
| 5447.72 | S | Average | 34.26 | 9.03 | 43.29 | 54 | -10.71 |
| 5460.00 | E | Peak | 43.06 | 8.88 | 51.94 | 74 | -22.06 |
| 5460.00 | E | Average | 32.14 | 8.88 | 41.02 | 54 | -12.98 |

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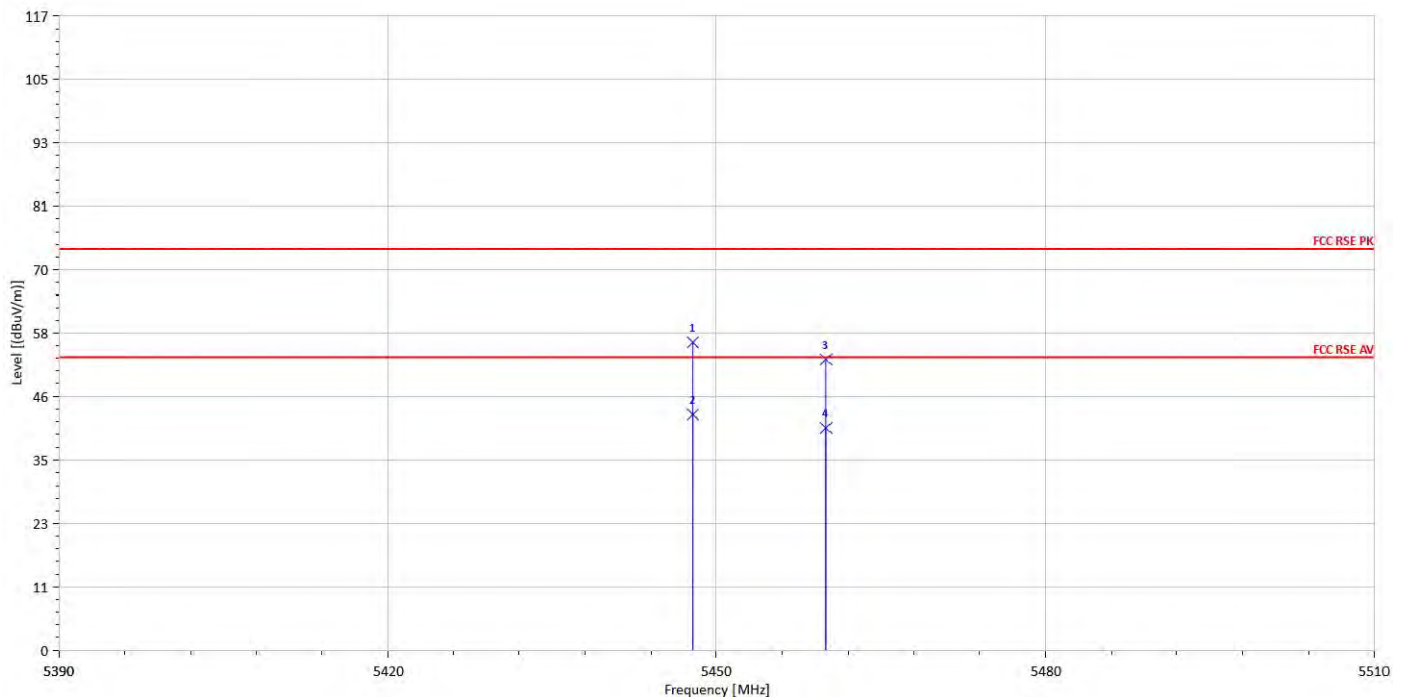
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5447.84 | S | Peak | 47.76 | 9.02 | 56.79 | 74 | -17.21 |
| 5447.84 | S | Average | 34.51 | 9.02 | 43.53 | 54 | -10.47 |
| 5460.00 | E | Peak | 44.72 | 8.88 | 53.61 | 74 | -20.39 |
| 5460.00 | E | Average | 32.13 | 8.88 | 41.01 | 54 | -12.99 |

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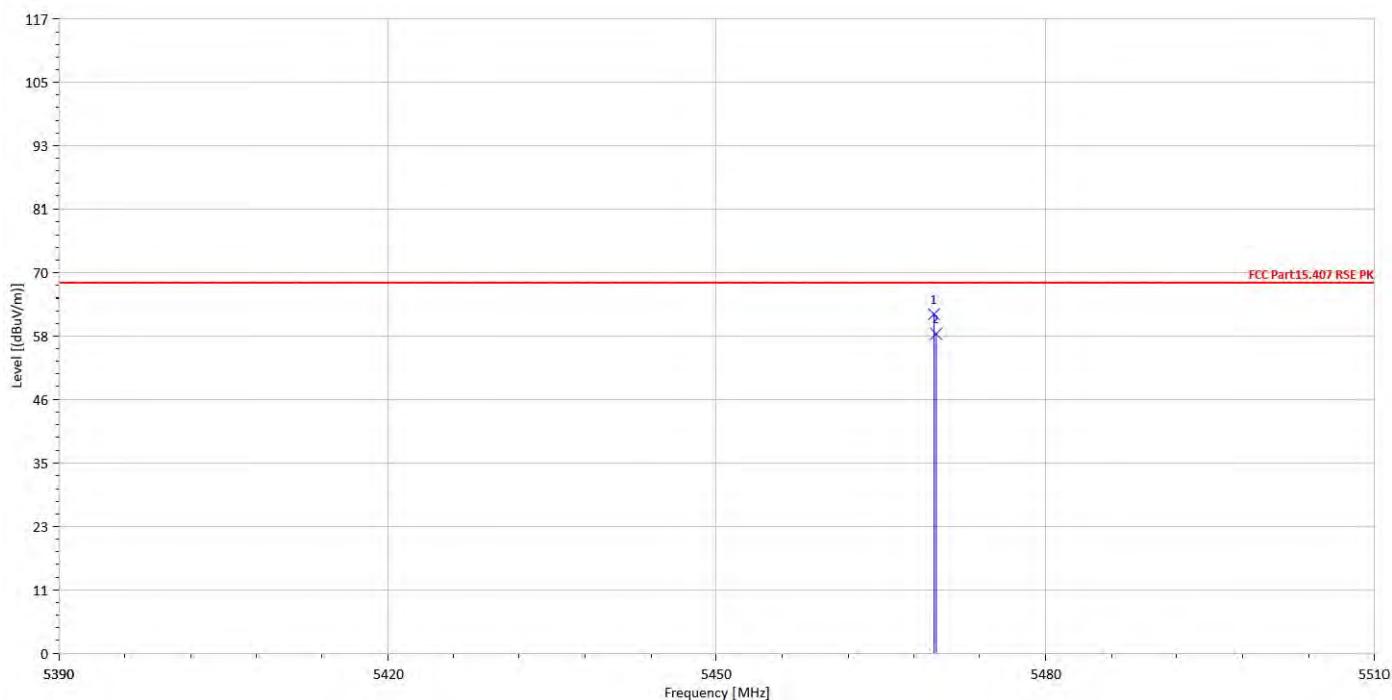
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|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.80 | S | Peak | 53.80 | 8.79 | 62.59 | 68.3 | -5.71 |
| 5470.00 | E | Peak | 50.16 | 8.79 | 58.94 | 68.3 | -9.36 |

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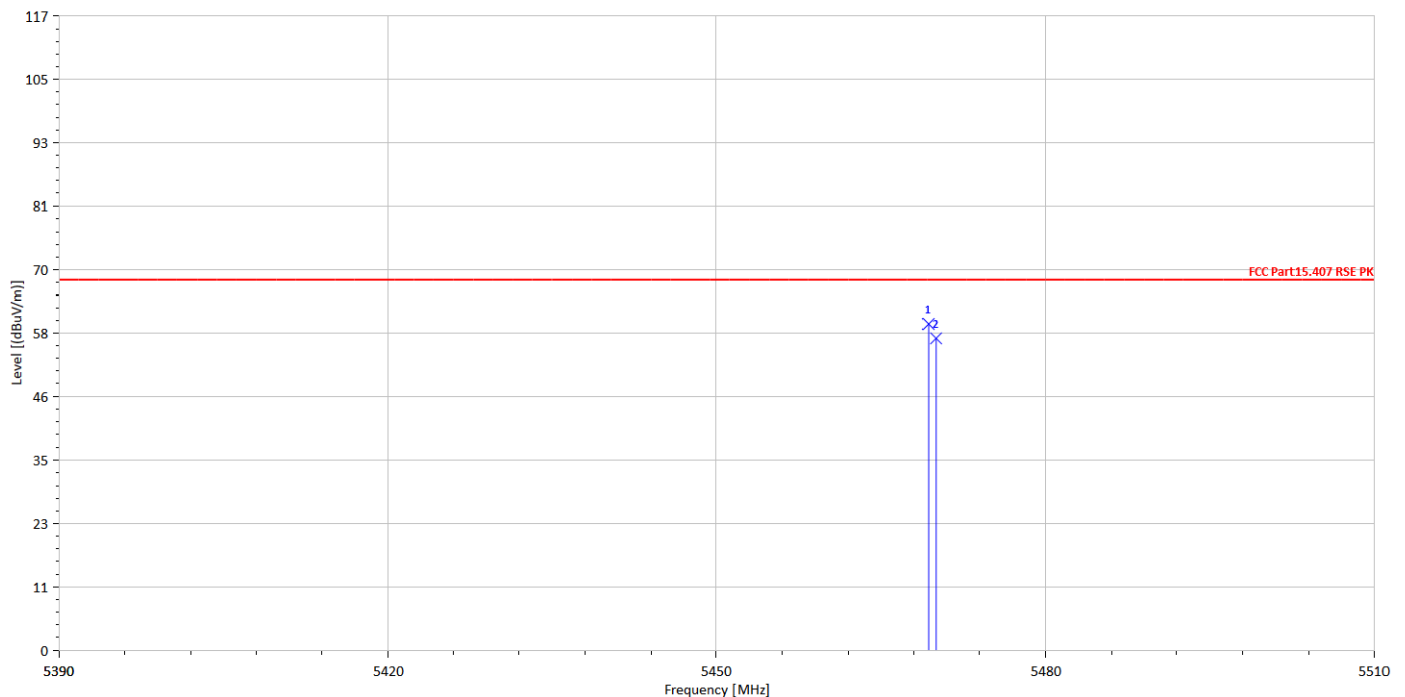
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| | | | |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5500 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.32 | S | Peak | 51.41 | 8.79 | 60.20 | 68.3 | -8.10 |
| 5470.00 | E | Peak | 48.74 | 8.79 | 57.53 | 68.3 | -10.77 |

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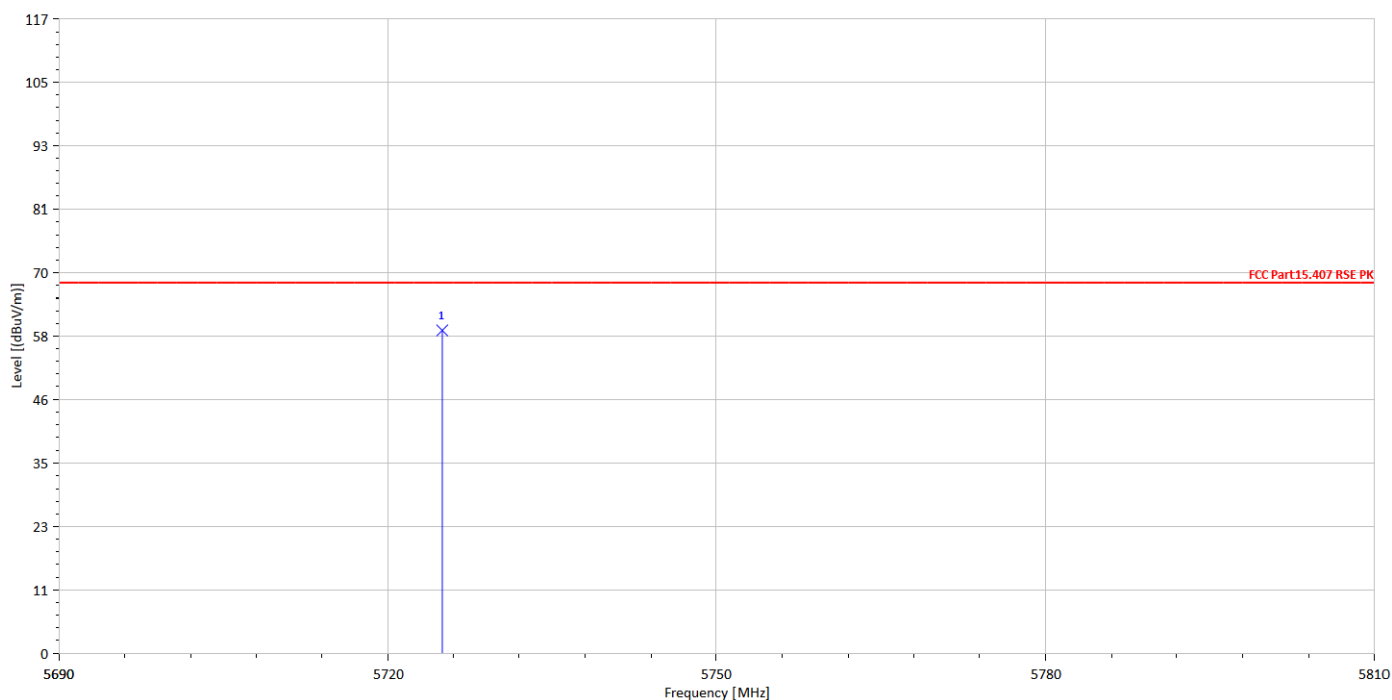
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5700 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5725.00 | E | Peak | 50.28 | 9.30 | 59.58 | 68.3 | -8.72 |

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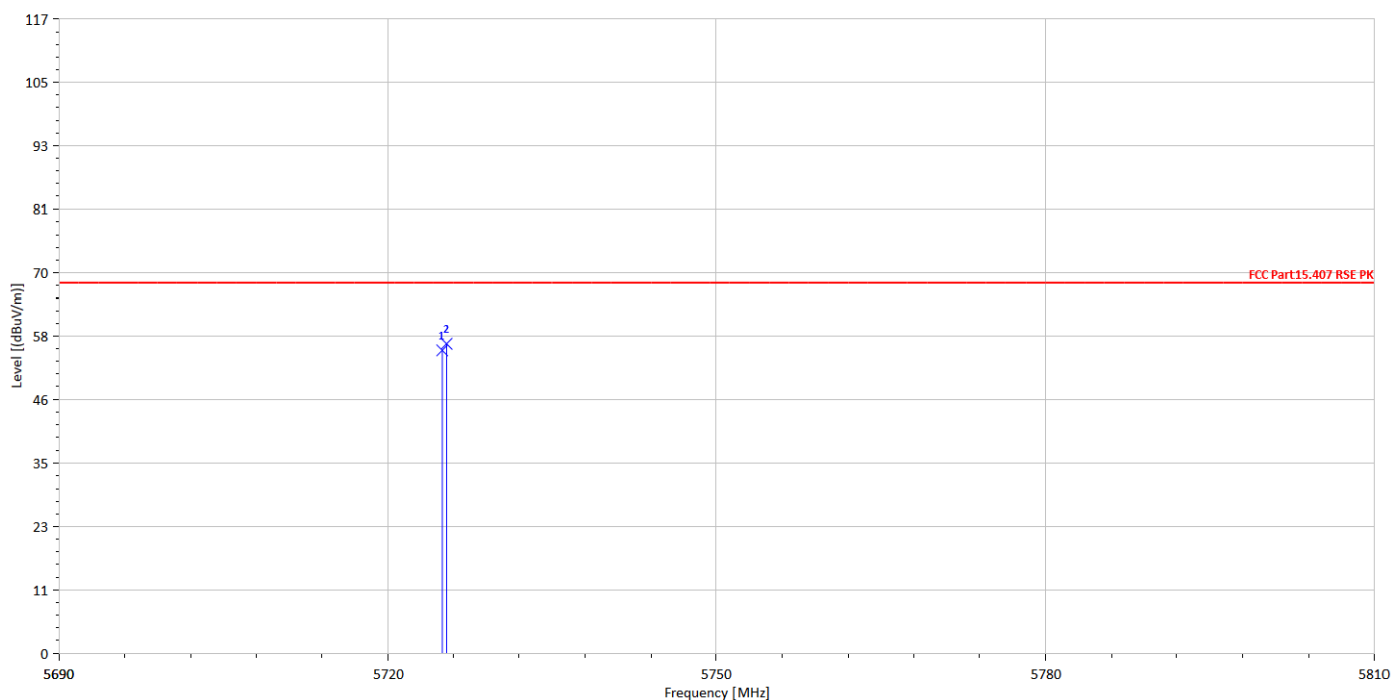
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5700 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | E | Peak | 46.56 | 9.30 | 55.86 | 68.3 | -12.44 |
| 5725.40 | S | Peak | 47.78 | 9.30 | 57.08 | 68.3 | -11.22 |

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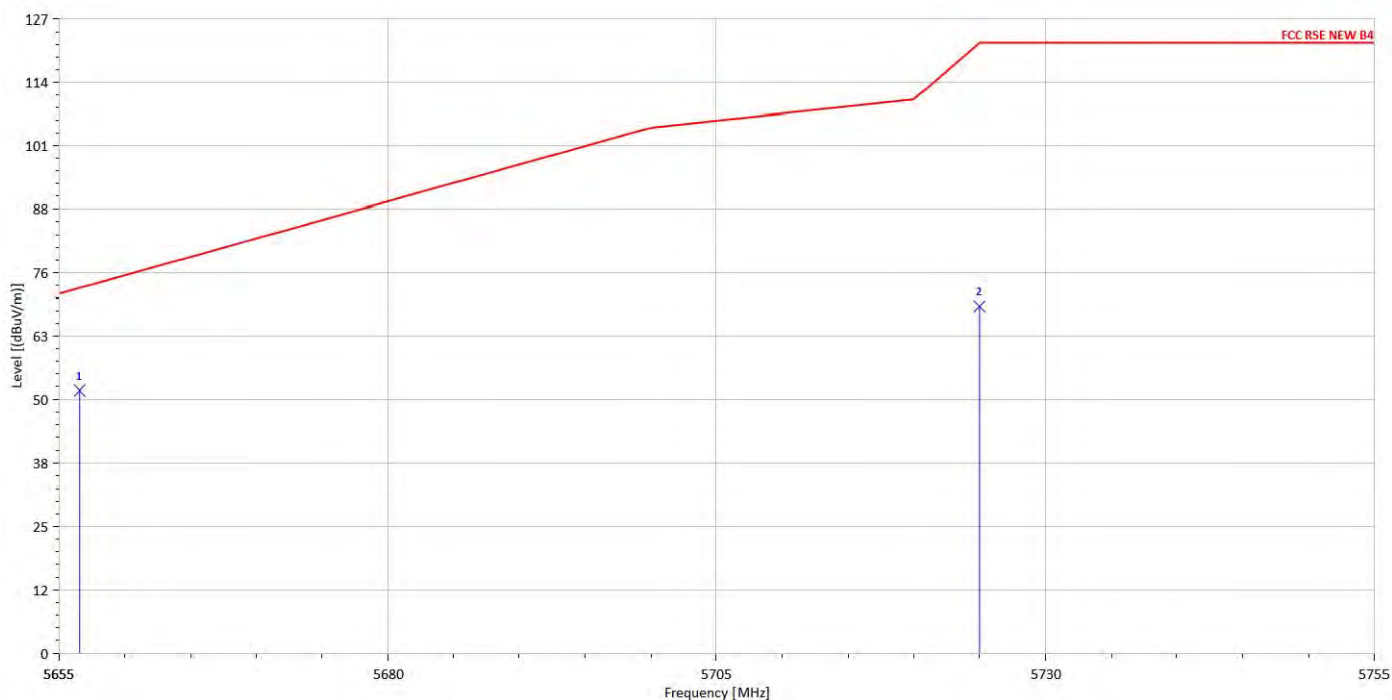
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5656.60 | S | Peak | 43.35 | 9.26 | 52.61 | 73.11 407 | -20.51 |
| 5725.00 | E | Peak | 60.21 | 9.30 | 69.51 | 122.23 | -52.72 |

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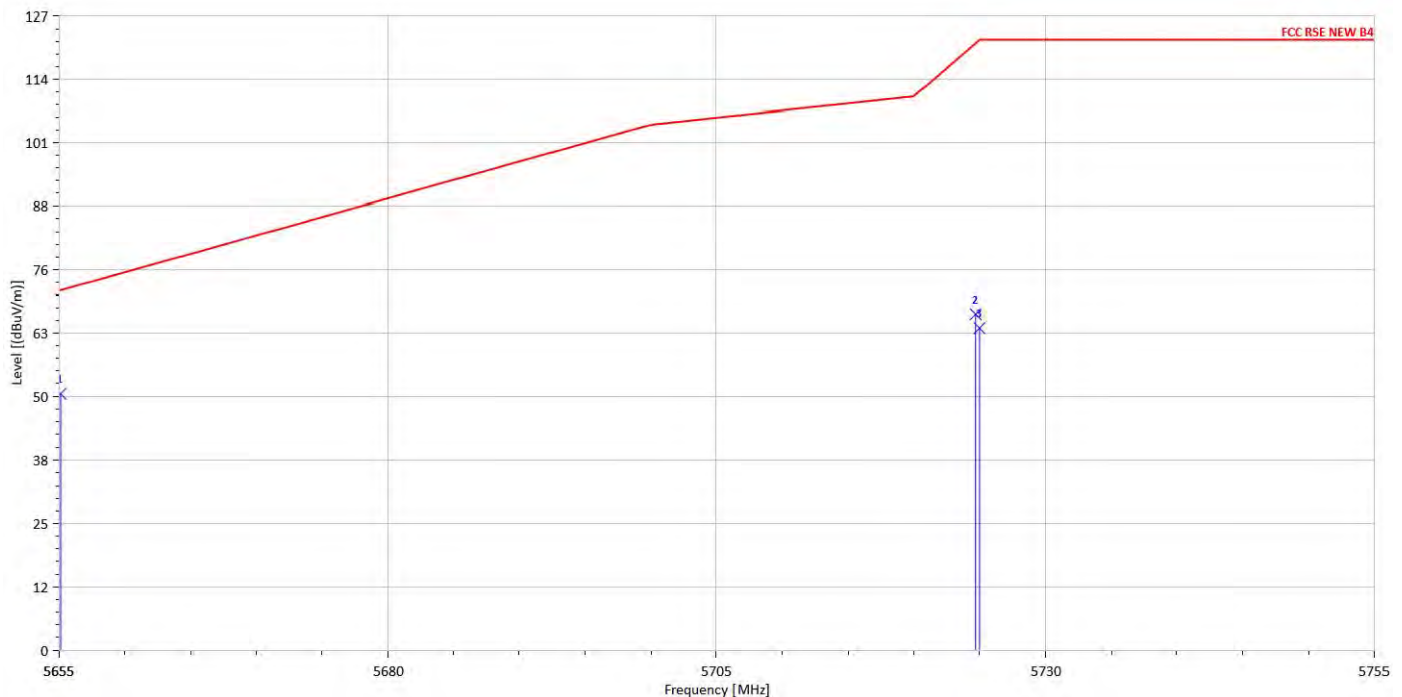
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5655.15 | S | Peak | 42.15 | 9.28 | 51.43 | 72.03732 | -20.61 |
| 5724.70 | S | Peak | 58.03 | 9.30 | 67.33 | 121.5464 | -54.22 |
| 5725.00 | E | Peak | 55.22 | 9.30 | 64.52 | 122.23 | -57.71 |

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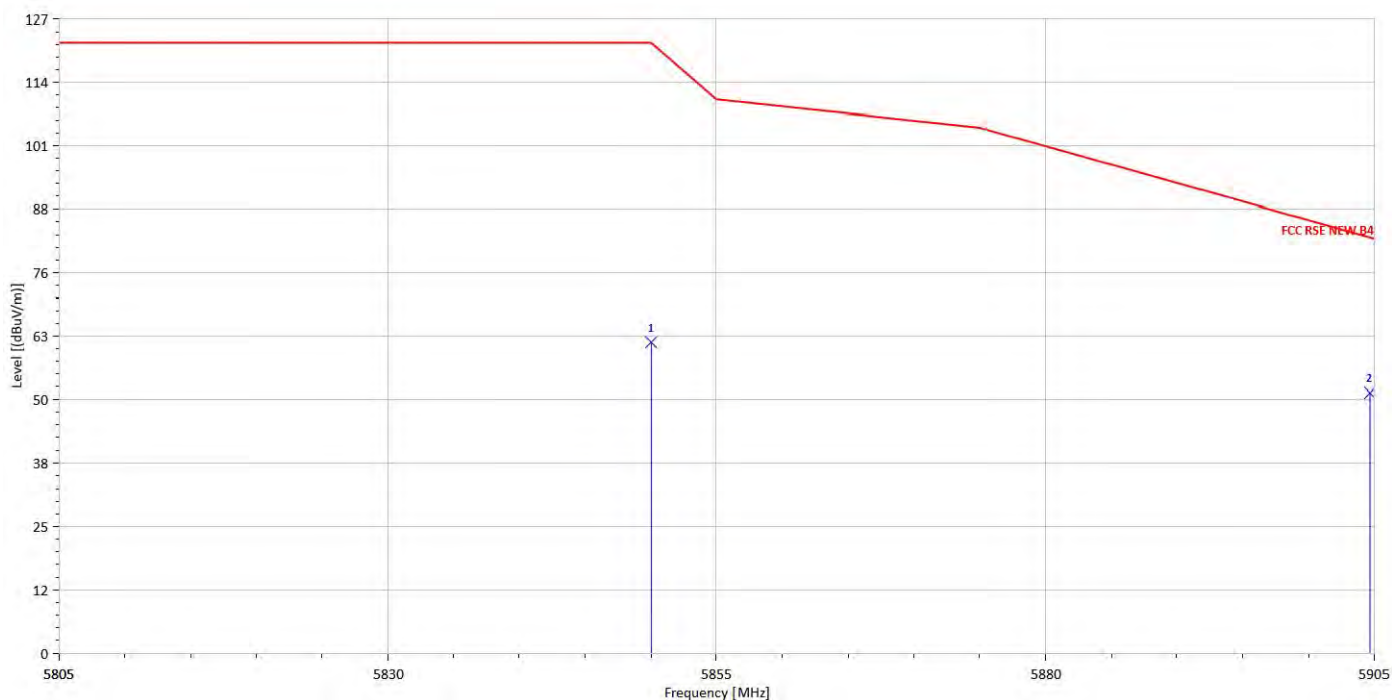
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|----------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5850.00 | E | Peak | 52.78 | 9.49 | 62.27 | 122.23 | -59.96 |
| 5904.70 | S | Peak | 42.37 | 9.78 | 52.15 | 83.25186 | -31.11 |

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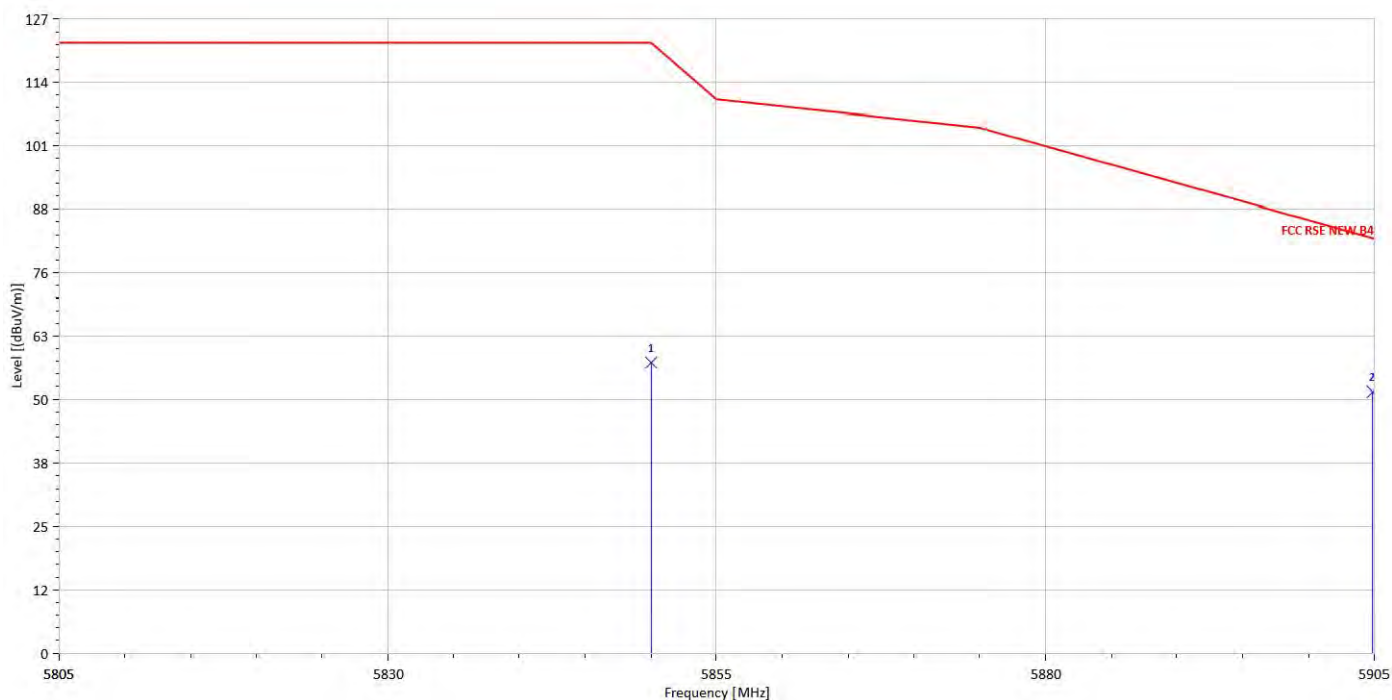
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5850.00 | E | Peak | 48.67 | 9.49 | 58.16 | 122.23 | -64.07 |
| 5904.90 | S | Peak | 42.57 | 9.78 | 52.35 | 83.10407 | -30.75 |

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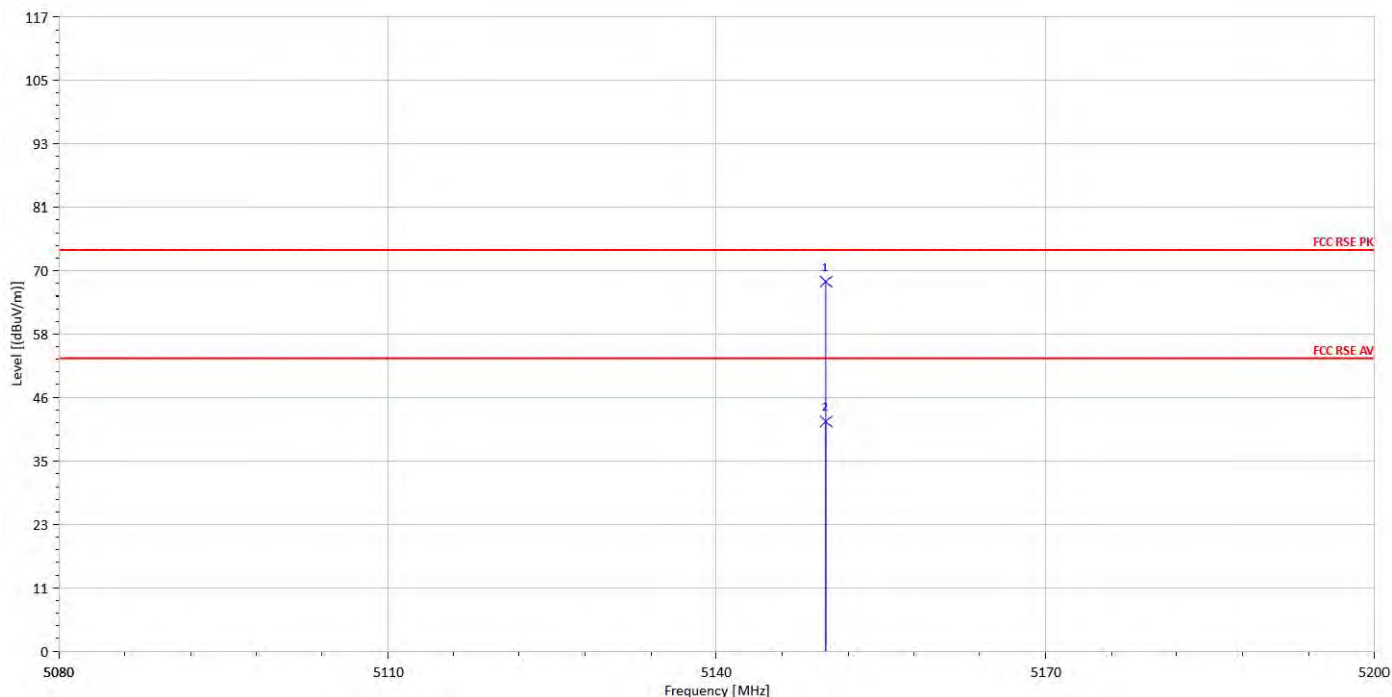
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802.11n40 HT mode

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5150.00 | E | Peak | 59.92 | 8.19 | 68.11 | 74 | -5.89 |
| 5150.00 | E | Average | 34.21 | 8.19 | 42.40 | 54 | -11.60 |

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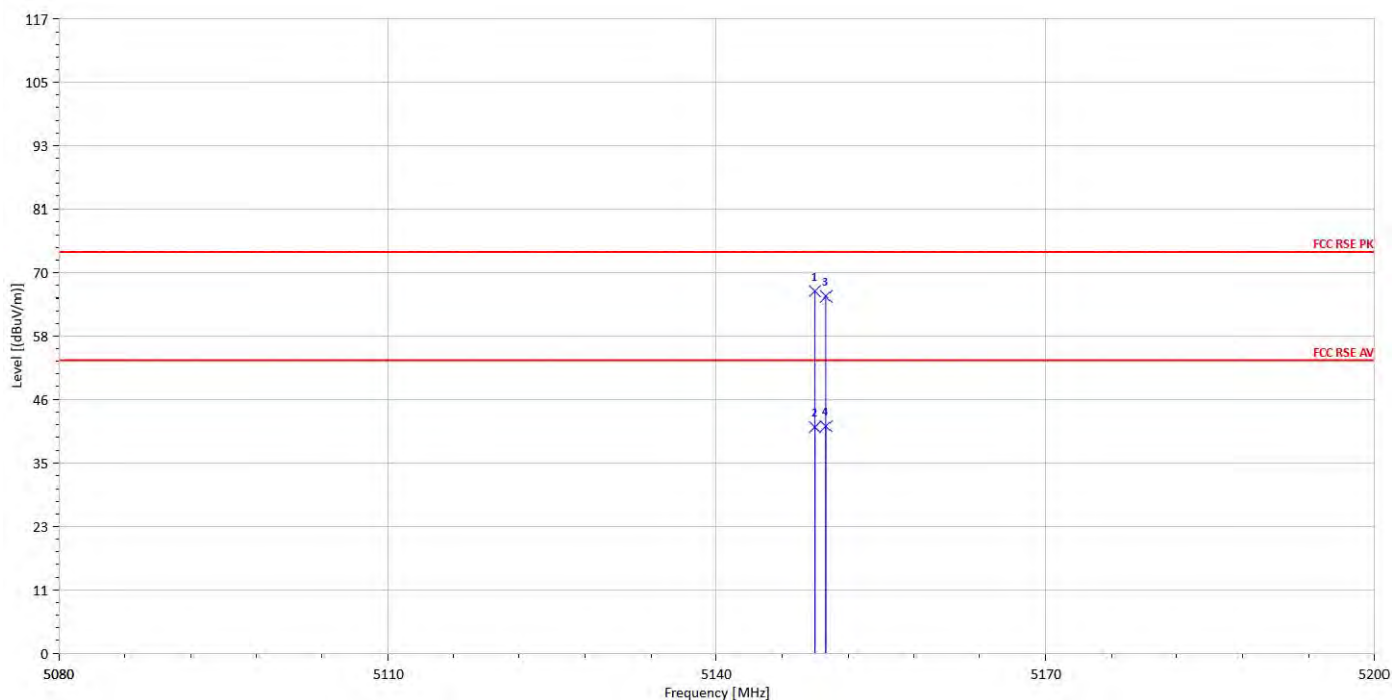
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5190 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5149.00 | S | Peak | 58.54 | 8.19 | 66.72 | 74 | -7.28 |
| 5149.00 | S | Average | 33.55 | 8.19 | 41.74 | 54 | -12.26 |
| 5150.00 | E | Peak | 57.63 | 8.19 | 65.82 | 74 | -8.18 |
| 5150.00 | E | Average | 33.71 | 8.19 | 41.90 | 54 | -12.10 |

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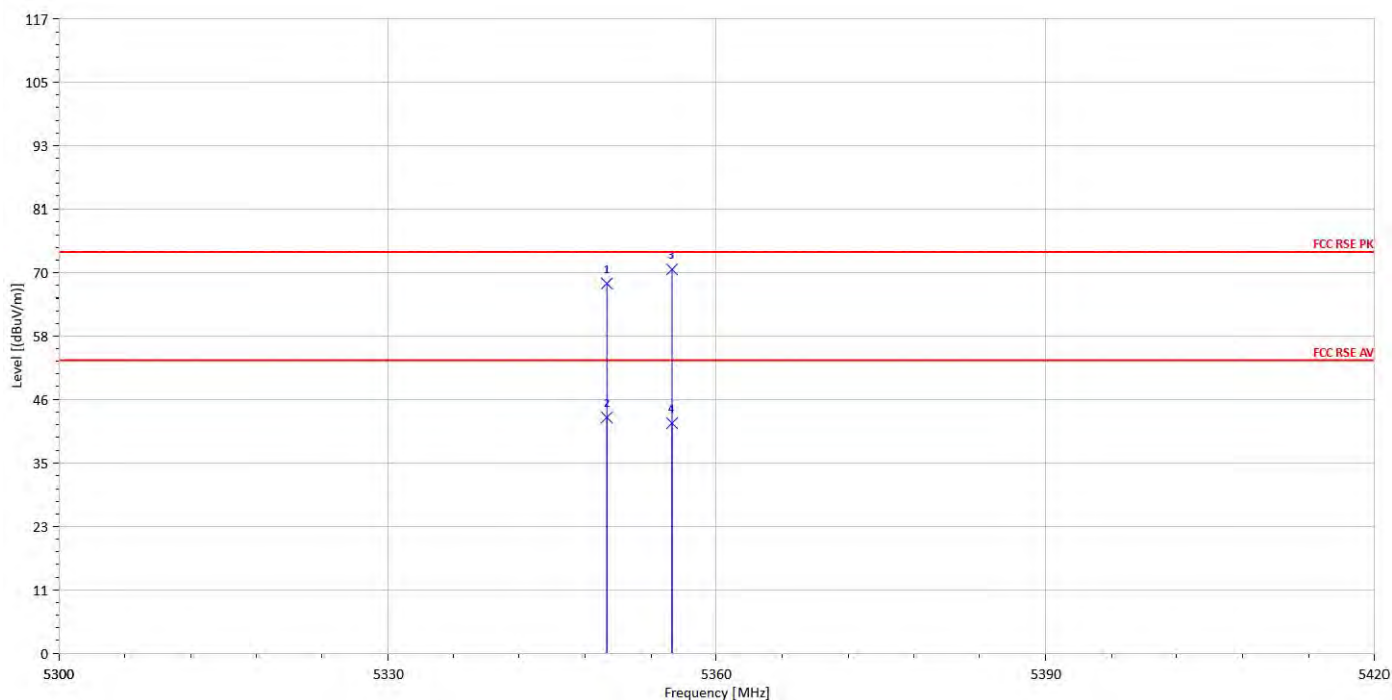
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5310 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Peak | 59.18 | 8.96 | 68.14 | 74 | -5.86 |
| 5350.00 | E | Average | 34.58 | 8.96 | 43.54 | 54 | -10.46 |
| 5355.92 | S | Peak | 61.81 | 8.96 | 70.76 | 74 | -3.24 |
| 5355.92 | S | Average | 33.52 | 8.96 | 42.48 | 54 | -11.52 |

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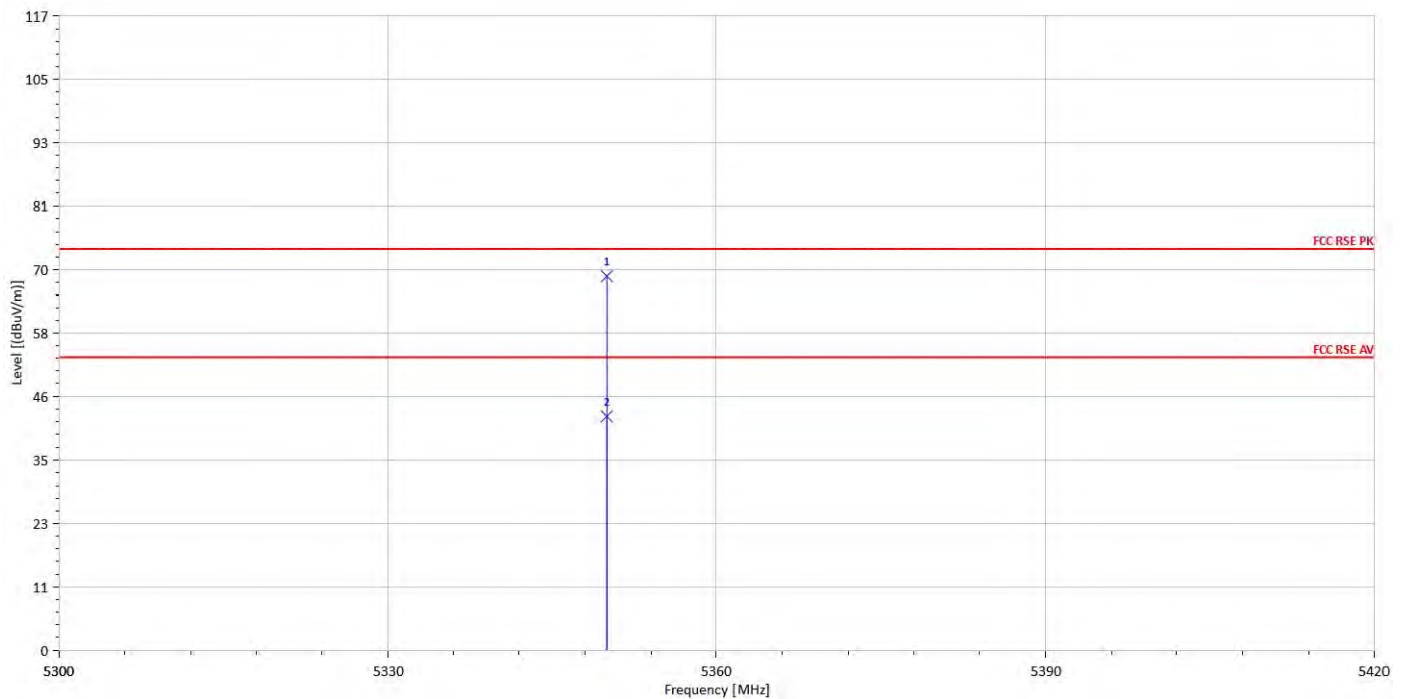
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5310 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00 | E | Peak | 59.97 | 8.96 | 68.94 | 74 | -5.06 |
| 5350.00 | E | Average | 34.21 | 8.96 | 43.17 | 54 | -10.83 |

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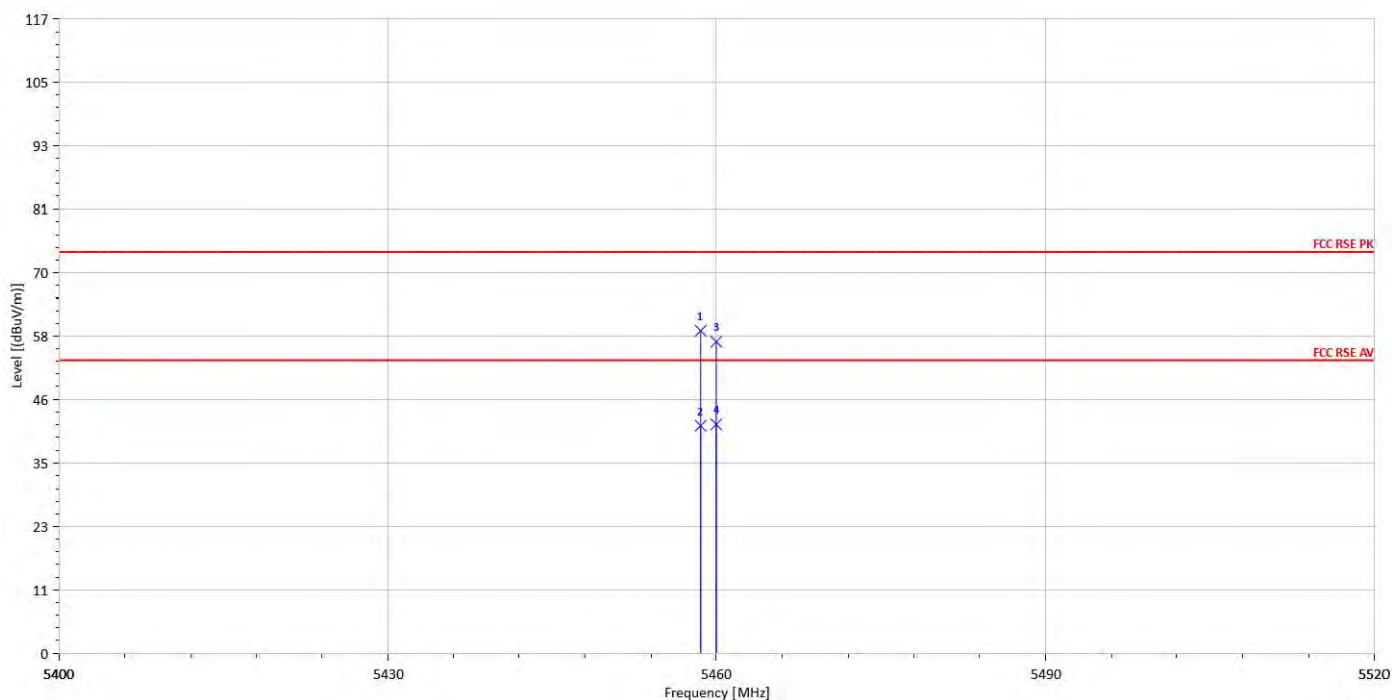
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5510 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5458.56 | S | Peak | 50.61 | 8.90 | 59.51 | 74 | -14.49 |
| 5458.56 | S | Average | 33.10 | 8.90 | 42.00 | 54 | -12.00 |
| 5460.00 | E | Peak | 48.58 | 8.88 | 57.46 | 74 | -16.54 |
| 5460.00 | E | Average | 33.35 | 8.88 | 42.23 | 54 | -11.77 |

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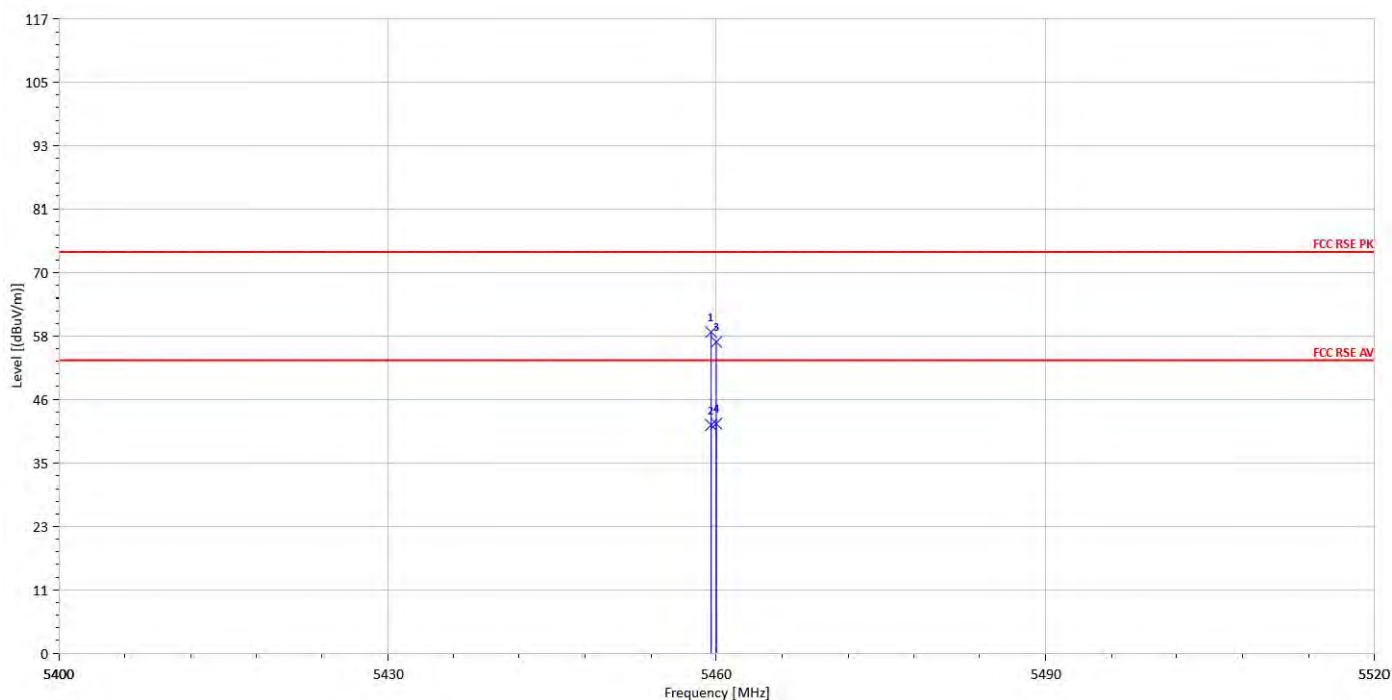
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5510 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5459.52 | S | Peak | 50.38 | 8.89 | 59.27 | 74 | -14.73 |
| 5459.52 | S | Average | 33.24 | 8.89 | 42.13 | 54 | -11.87 |
| 5460.00 | E | Peak | 48.54 | 8.88 | 57.43 | 74 | -16.57 |
| 5460.00 | E | Average | 33.50 | 8.88 | 42.38 | 54 | -11.62 |

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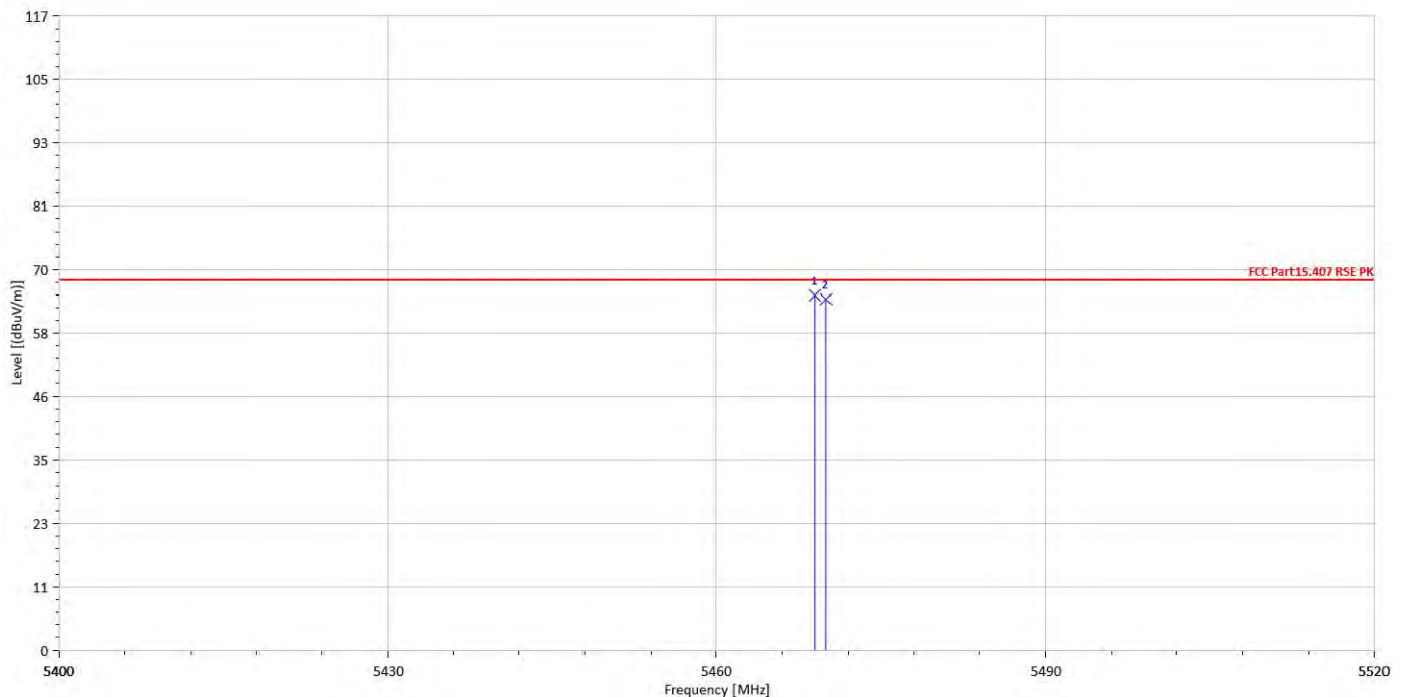
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|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5510 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.00 | S | Peak | 56.66 | 8.80 | 65.46 | 68.3 | -2.84 |
| 5470.00 | E | Peak | 55.96 | 8.79 | 64.75 | 68.3 | -3.55 |

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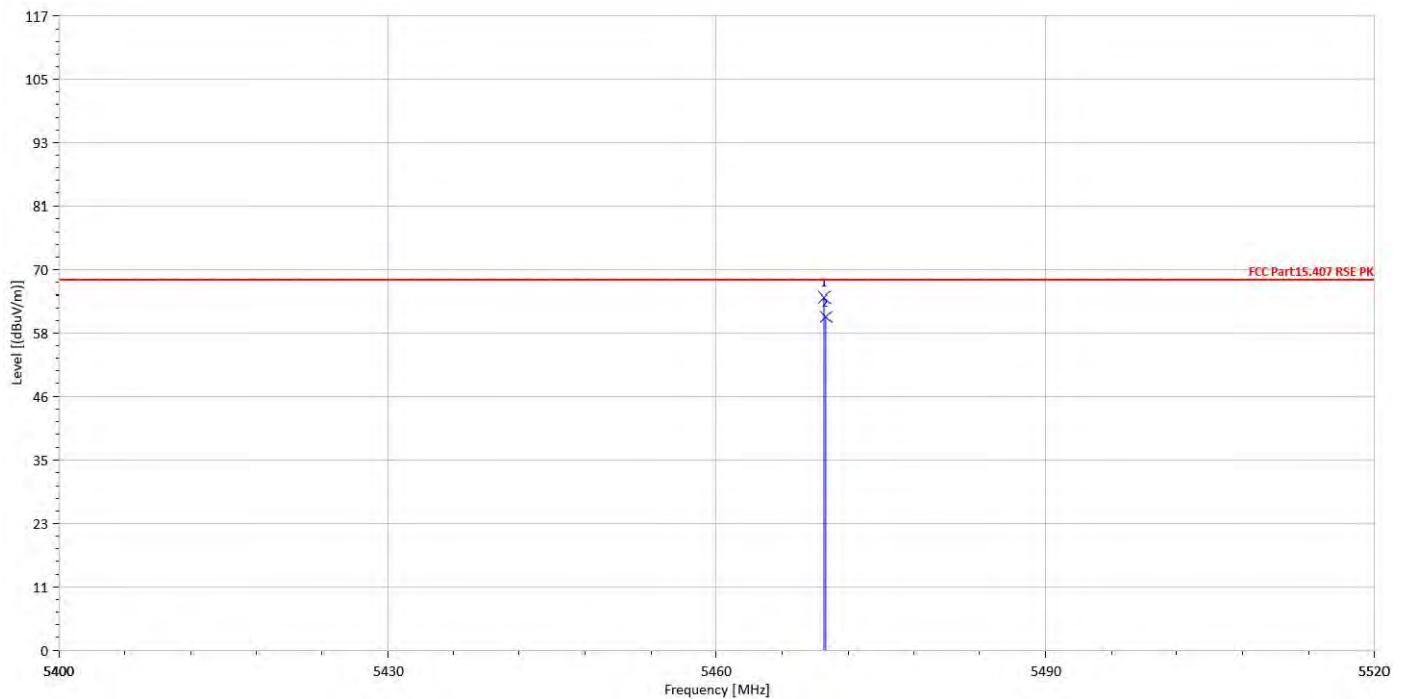
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|-------------------------|---------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5510 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low RSE | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5469.84 | S | Peak | 56.31 | 8.79 | 65.10 | 68.3 | -3.20 |
| 5470.00 | E | Peak | 52.75 | 8.79 | 61.54 | 68.3 | -6.76 |

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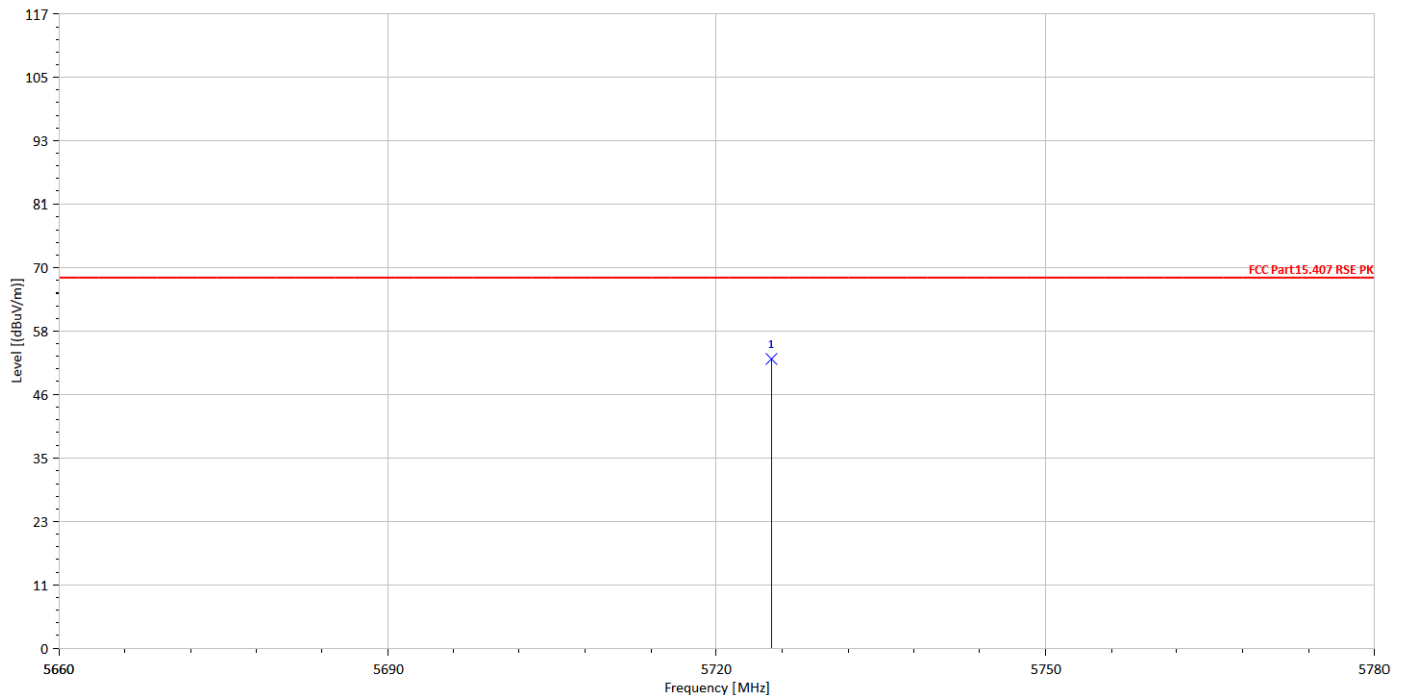
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5670 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5725.00 | E | Peak | 44.02 | 9.30 | 53.32 | 68.3 | -14.98 |

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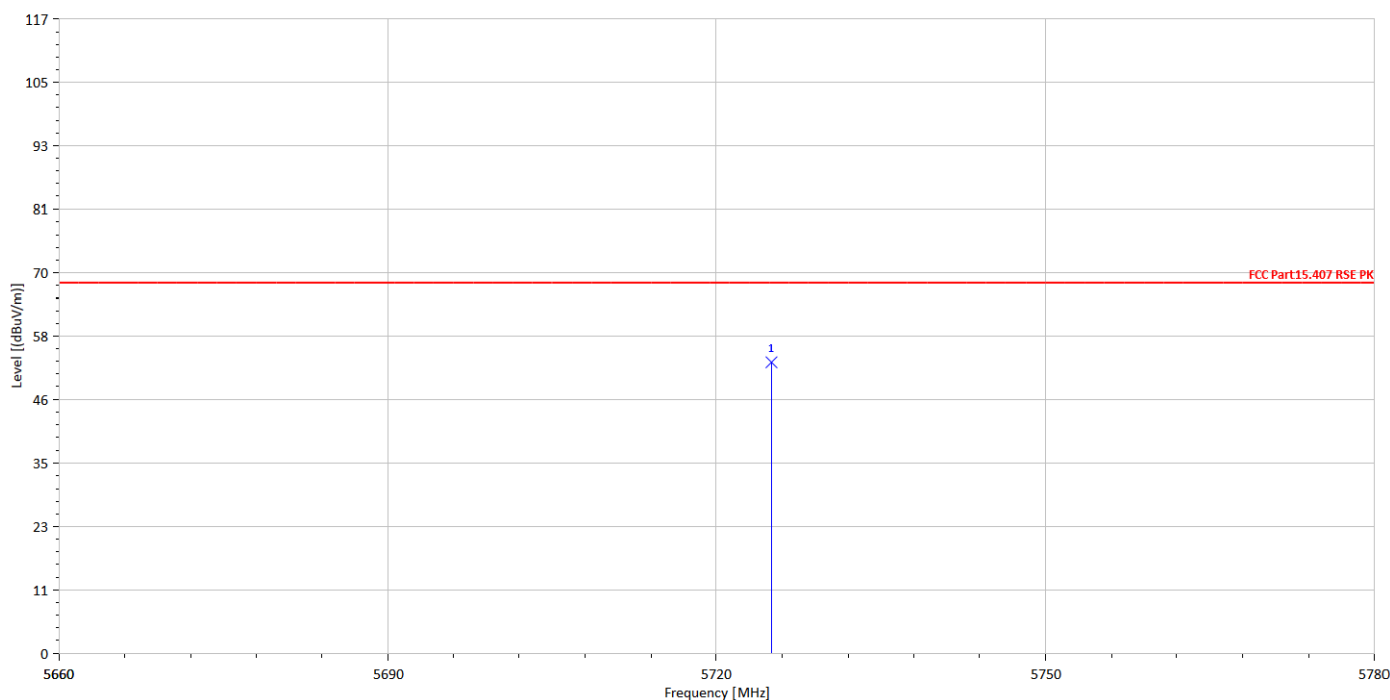
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5670 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5725.00 | E | Peak | 44.33 | 9.30 | 53.63 | 68.3 | -14.67 |

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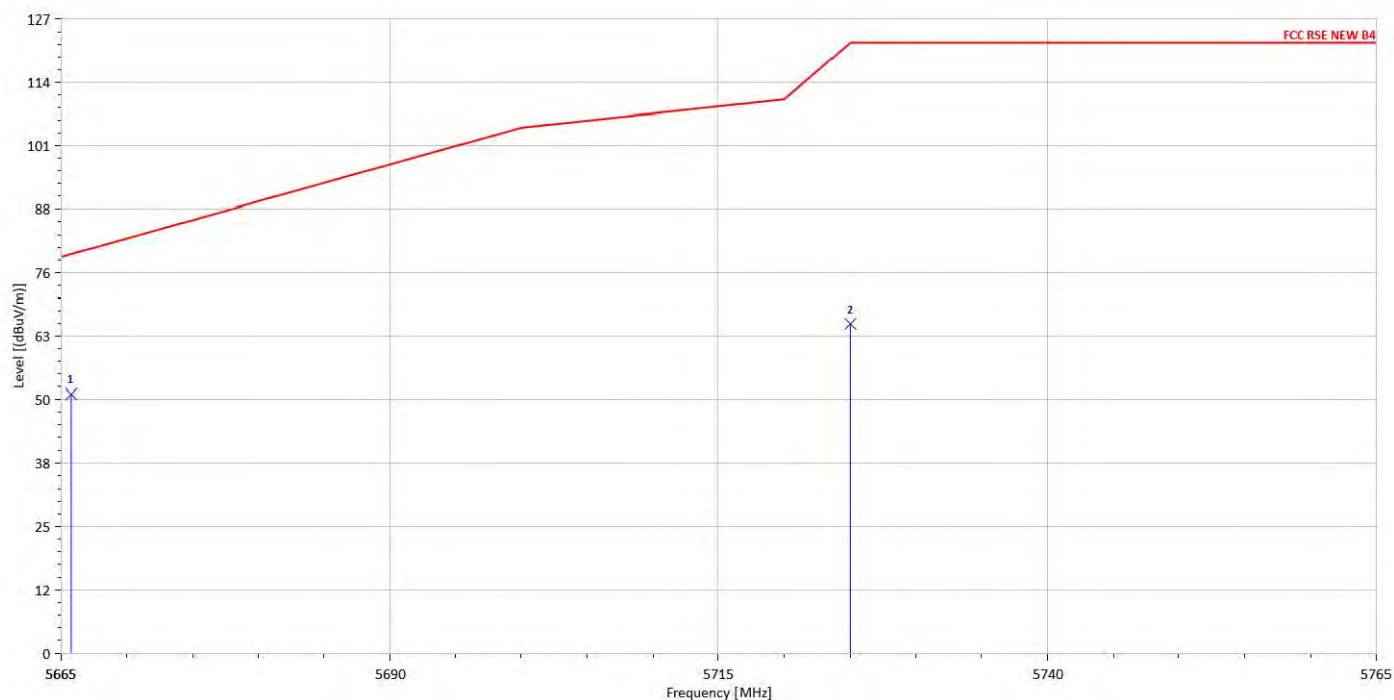
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| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Vertical |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5665.80 | S | Peak | 42.71 | 9.18 | 51.90 | 79.92186 | -28.02 |
| 5725.00 | E | Peak | 56.68 | 9.30 | 65.99 | 122.23 | -56.24 |

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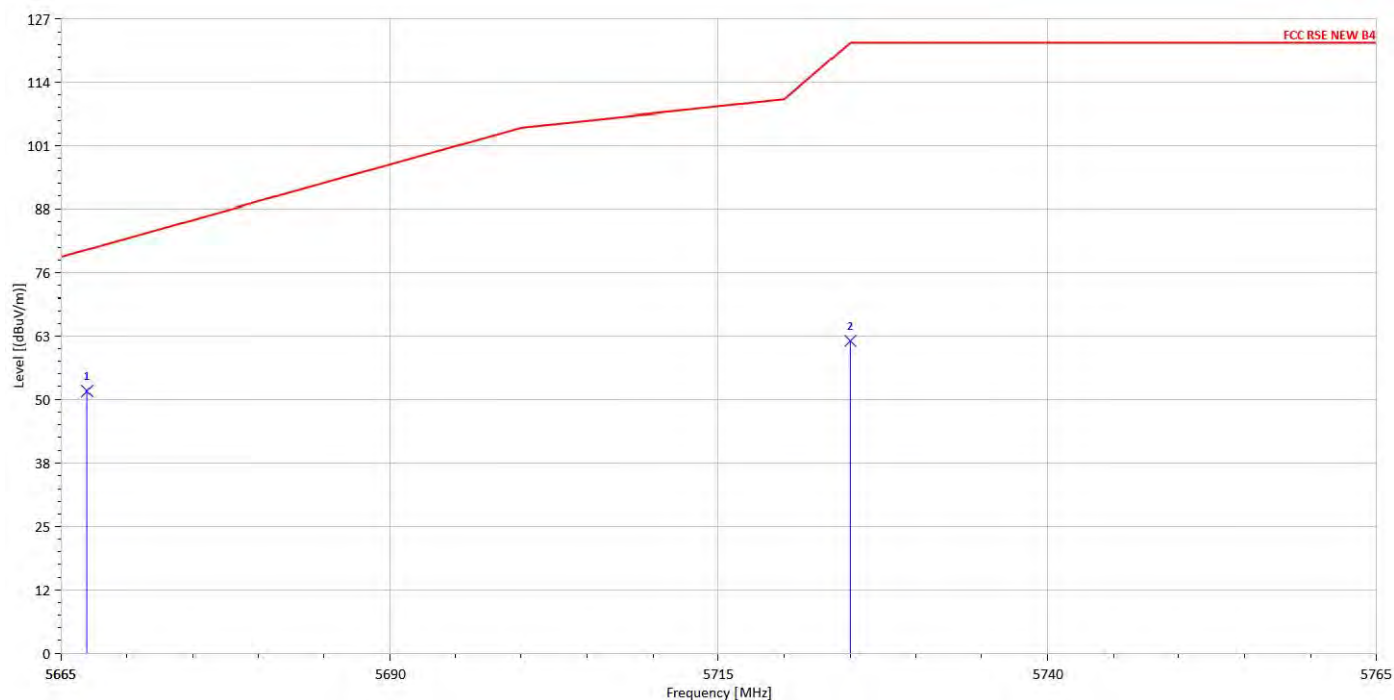
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|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 5667.00 | S | Peak | 43.31 | 9.18 | 52.49 | 80.81001 | -28.32 |
| 5725.00 | E | Peak | 53.24 | 9.30 | 62.54 | 122.23 | -59.69 |

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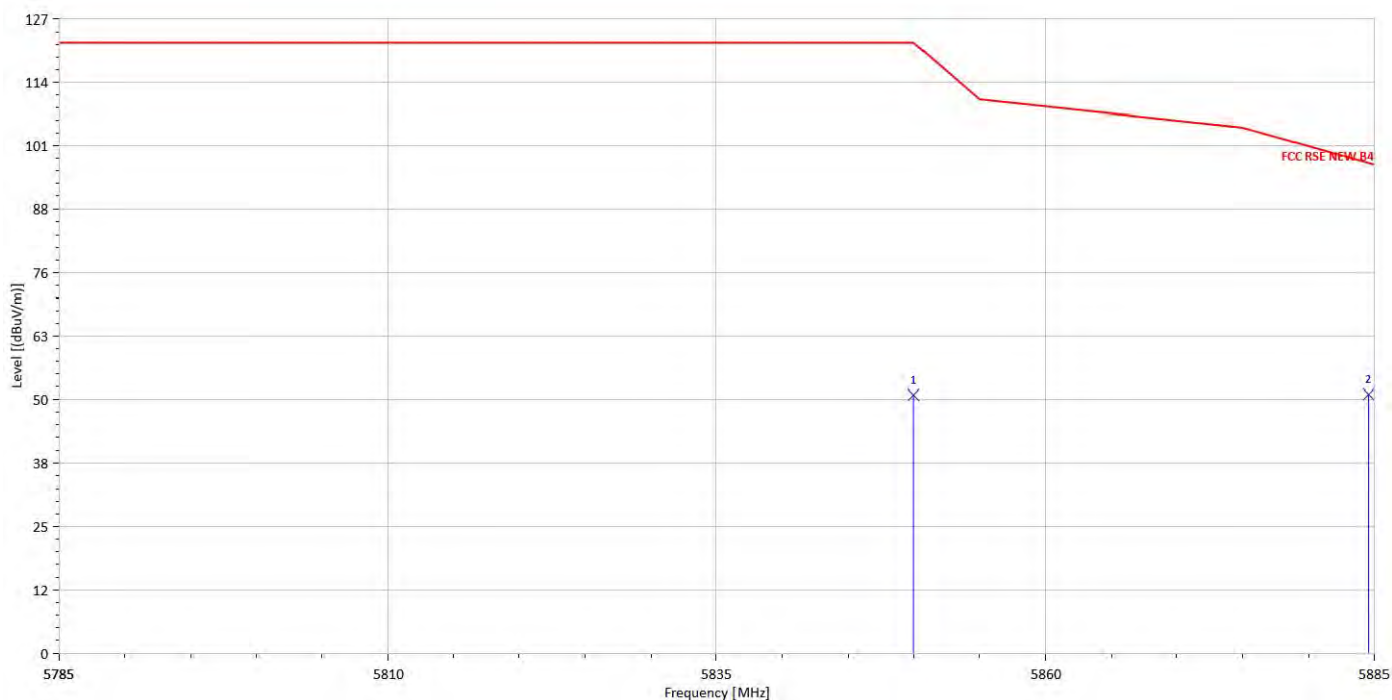
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Operation Mode : 802.11n40 Test Date : 2016/8/14
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00 | E | Peak | 44.02 | 9.30 | 53.32 | 68.3 | -14.98 |

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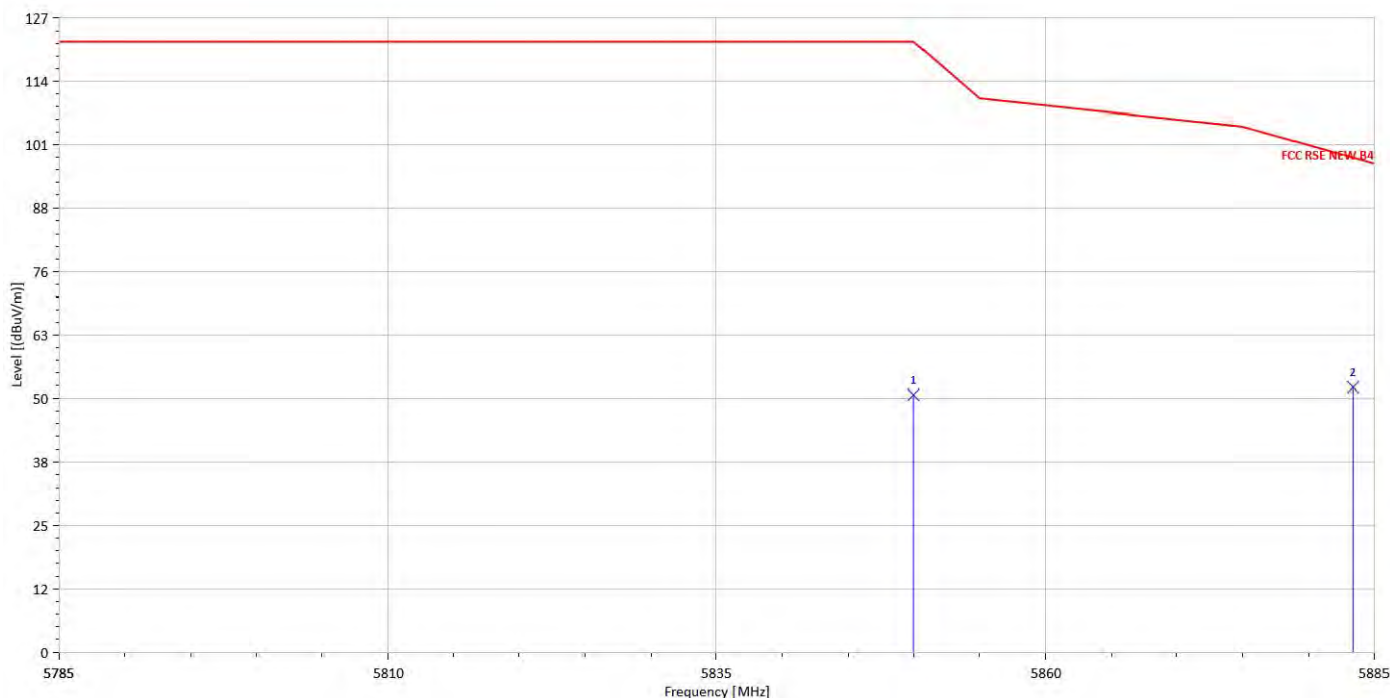
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/8/14 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH High | Test Engineer : | Pony |
| EUT Pol. : | H | Measurement Antenna Pol. : | Horizontal |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|----------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 42.10 | 9.49 | 51.59 | 122.23 | -70.64 |
| 5883.40 | S | Peak | 43.44 | 9.63 | 53.07 | 99.01408 | -45.95 |

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

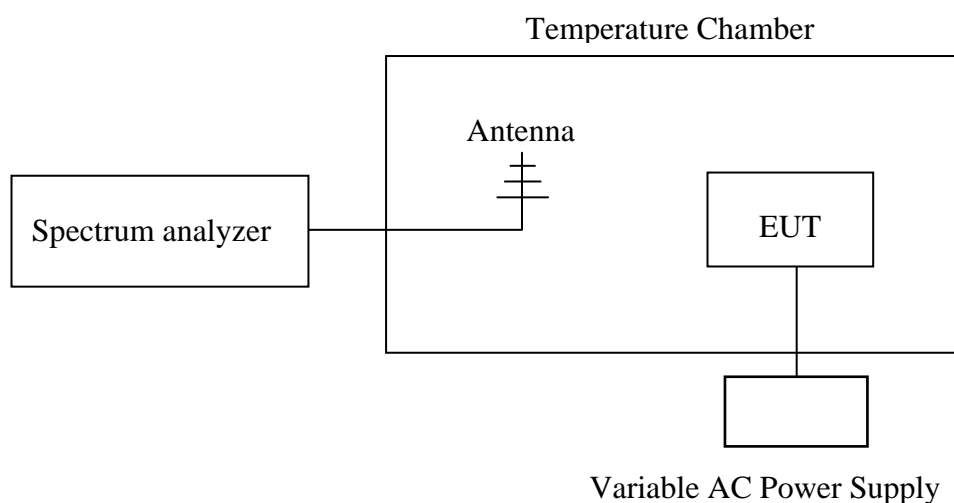
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



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13.4 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

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13.5 Measurement Result

| | | | |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2016.08.18 |
| Temperature | :26 | Test By | Wayne |
| Humidity | :56 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -20 | 4.37V | 36 | 5180 | 5,179.99630 | 0.00000071 |
| | | 44 | 5220 | 5,219.95470 | 0.00000868 |
| | | 48 | 5240 | 5,239.95680 | 0.00000824 |
| | | 52 | 5260 | 5,259.95740 | 0.00000810 |
| | | 60 | 5300 | 5,299.95900 | 0.00000774 |
| | | 64 | 5320 | 5,319.94970 | 0.00000945 |
| | | 100 | 5500 | 5,499.95980 | 0.00000731 |
| | | 116 | 5580 | 5,579.94640 | 0.00000961 |
| | | 140 | 5700 | 5,699.94420 | 0.00000979 |
| | | 149 | 5745 | 5,744.94190 | 0.00001011 |
| | | 157 | 5785 | 5,784.94030 | 0.00001032 |
| | | 165 | 5825 | 5,824.94780 | 0.00000896 |
| | 3.54V | 36 | 5180 | 5,179.95170 | 0.00000932 |
| | | 44 | 5220 | 5,219.95350 | 0.00000891 |
| | | 48 | 5240 | 5,239.95040 | 0.00000947 |
| | | 52 | 5260 | 5,259.95470 | 0.00000861 |
| | | 60 | 5300 | 5,299.94290 | 0.00001077 |
| | | 64 | 5320 | 5,319.95400 | 0.00000865 |
| | | 100 | 5500 | 5,499.94260 | 0.00001044 |
| | | 116 | 5580 | 5,579.95750 | 0.00000762 |
| | | 140 | 5700 | 5,699.94990 | 0.00000879 |
| | | 149 | 5745 | 5,744.95640 | 0.00000759 |
| | | 157 | 5785 | 5,784.94450 | 0.00000959 |
| | | 165 | 5825 | 5,824.94200 | 0.00000996 |

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| | | | | | |
|----|------|-----|------|-------------|------------|
| 25 | 3.8V | 36 | 5180 | 5,179.98070 | 0.00000373 |
| | | 44 | 5220 | 5,219.98800 | 0.00000230 |
| | | 48 | 5240 | 5,239.98720 | 0.00000244 |
| | | 52 | 5260 | 5,259.98520 | 0.00000281 |
| | | 60 | 5300 | 5,299.98370 | 0.00000308 |
| | | 64 | 5320 | 5,319.98490 | 0.00000284 |
| | | 100 | 5500 | 5,499.98510 | 0.00000271 |
| | | 116 | 5580 | 5,579.98080 | 0.00000344 |
| | | 140 | 5700 | 5,699.97980 | 0.00000354 |
| | | 149 | 5745 | 5,744.97950 | 0.00000357 |
| | | 157 | 5785 | 5,784.97980 | 0.00000349 |
| | | 165 | 5825 | 5,824.97900 | 0.00000361 |

| | | | | | |
|----|-------|-----|------|-------------|------------|
| 60 | 4.37V | 36 | 5180 | 5,179.95940 | 0.00000784 |
| | | 44 | 5220 | 5,219.94800 | 0.00000996 |
| | | 48 | 5240 | 5,239.95110 | 0.00000933 |
| | | 52 | 5260 | 5,259.94290 | 0.00001086 |
| | | 60 | 5300 | 5,299.95220 | 0.00000902 |
| | | 64 | 5320 | 5,319.95020 | 0.00000936 |
| | | 100 | 5500 | 5,499.95290 | 0.00000856 |
| | | 116 | 5580 | 5,579.94570 | 0.00000973 |
| | | 140 | 5700 | 5,699.95310 | 0.00000823 |
| | | 149 | 5745 | 5,744.95300 | 0.00000818 |
| | | 157 | 5785 | 5,784.95100 | 0.00000847 |
| | | 165 | 5825 | 5,824.95670 | 0.00000743 |
| | 3.54V | 36 | 5180 | 5,179.95300 | 0.00000907 |
| | | 44 | 5220 | 5,219.94810 | 0.00000994 |
| | | 48 | 5240 | 5,239.94330 | 0.00001082 |
| | | 52 | 5260 | 5,259.95940 | 0.00000772 |
| | | 60 | 5300 | 5,299.95530 | 0.00000843 |
| | | 64 | 5320 | 5,319.94500 | 0.00001034 |
| | | 100 | 5500 | 5,499.95260 | 0.00000862 |
| | | 116 | 5580 | 5,579.94100 | 0.00001057 |
| | | 140 | 5700 | 5,699.94260 | 0.00001007 |
| | | 149 | 5745 | 5,744.94120 | 0.00001023 |
| | | 157 | 5785 | 5,784.94470 | 0.00000956 |
| | | 165 | 5825 | 5,824.95070 | 0.00000846 |

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| Operation Mode | | 802.11 n_HT40 | | Test Date | 2016.08.18 |
|----------------|--------------|---------------|--------------------------|--------------------------|------------------|
| Temperature | | :26 | | Test By | Wayne |
| Humidity | | :56 % | | | |
| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
| -20 | 4.37V | 38 | 5190 | 5,189.98070 | 0.00000372 |
| | | 46 | 5230 | 5,229.98230 | 0.00000338 |
| | | 54 | 5270 | 5,269.98020 | 0.00000376 |
| | | 62 | 5310 | 5,309.98410 | 0.00000299 |
| | | 102 | 5510 | 5,509.99840 | 0.00000029 |
| | | 110 | 5550 | 5,549.98000 | 0.00000360 |
| | | 134 | 5670 | 5,669.98570 | 0.00000252 |
| | | 151 | 5755 | 5,754.99860 | 0.00000024 |
| | | 159 | 5795 | 5,794.98210 | 0.00000309 |
| | 3.54V | 38 | 5190 | 5,189.99100 | 0.00000173 |
| | | 46 | 5230 | 5,229.98640 | 0.00000260 |
| | | 54 | 5270 | 5,269.98760 | 0.00000235 |
| | | 62 | 5310 | 5,309.98620 | 0.00000260 |
| | | 102 | 5510 | 5,509.98750 | 0.00000227 |
| | | 110 | 5550 | 5,549.98010 | 0.00000359 |
| | | 134 | 5670 | 5,669.98730 | 0.00000224 |
| | | 151 | 5755 | 5,754.98330 | 0.00000290 |
| | | 159 | 5795 | 5,794.99180 | 0.00000142 |

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| | | | | | |
|----|-------|-----|------|-------------|------------|
| 25 | 3.8V | 38 | 5190 | 5,189.98270 | 0.00000333 |
| | | 46 | 5230 | 5,229.98370 | 0.00000312 |
| | | 54 | 5270 | 5,269.98290 | 0.00000324 |
| | | 62 | 5310 | 5,309.98250 | 0.00000330 |
| | | 102 | 5510 | 5,509.98060 | 0.00000352 |
| | | 110 | 5550 | 5,549.98050 | 0.00000351 |
| | | 134 | 5670 | 5,669.97930 | 0.00000365 |
| | | 151 | 5755 | 5,754.97880 | 0.00000368 |
| | | 159 | 5795 | 5,794.97880 | 0.00000366 |
| 60 | 4.37V | 38 | 5190 | 5,189.99160 | 0.00000162 |
| | | 46 | 5230 | 5,229.98990 | 0.00000193 |
| | | 54 | 5270 | 5,269.98740 | 0.00000239 |
| | | 62 | 5310 | 5,309.99190 | 0.00000153 |
| | | 102 | 5510 | 5,509.99380 | 0.00000113 |
| | | 110 | 5550 | 5,549.98490 | 0.00000272 |
| | | 134 | 5670 | 5,669.98600 | 0.00000247 |
| | | 151 | 5755 | 5,754.98150 | 0.00000321 |
| | | 159 | 5795 | 5,794.98420 | 0.00000273 |
| | 3.54V | 38 | 5190 | 5,189.99380 | 0.00000119 |
| | | 46 | 5230 | 5,229.98300 | 0.00000325 |
| | | 54 | 5270 | 5,269.98410 | 0.00000302 |
| | | 62 | 5310 | 5,309.99360 | 0.00000121 |
| | | 102 | 5510 | 5,509.98030 | 0.00000358 |
| | | 110 | 5550 | 5,549.98310 | 0.00000305 |
| | | 134 | 5670 | 5,669.99510 | 0.00000086 |
| | | 151 | 5755 | 5,754.99360 | 0.00000111 |
| | | 159 | 5795 | 5,794.98390 | 0.00000278 |

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

A PIFA antenna design is used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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